SDMS US EPA REGION V COLOR - RESOLUTION - 3 IMAGERY INSERT FORM

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SITE NAME	MATTHIESEN & HEGELER (CARUS CHEMICAL)
DOC ID#	163444
DOCUMENT VARIATION	X COLOR OR X RESOLUTION
PRP	RMD - MATTHIESEN & HEGELER
PHASE	SAS
OPERABLE UNITS	
PHASE (AR DOCUMENTS ONLY)	Remedial Removal Deletion Docket Original Update # Volume of
	COMMENT(S)
SITE MAPS	; SITE COLORED PHOTOGRAPHS
ALSO INCLUDES O	OVERSIZED MAPS (PARTIALLY SCANNED)

10



Executive Summary

The Carus Chemical Co. was placed on CERCLIS

(Comprehensive Environmental Response, Compensation and
Liability Information System) in August, 1990 as a result of
a request by the Environmental Protection Agency of the State
of Illinois. This action was taken as a result of previously
documented waste disposal practices of the facility and the
many years of operations at the same location.

Carus Chemical Co. is an active facility located at 1500 Eighth Street, LaSalle, Illinois. The site is legally described as being located in the East Half of the Northwest Quarter of Section 14, Township 33 North, Range 1 East of the Third Principal Meridian in LaSalle County, Illinois. The site is bordered by LaSalle Rolling Mills and Zinco on the north, the Little Vermilion River on the east, Sterling Street on the west and Seventh Street on the South.

Carus Chemical Co. was founded in 1912 and began operations at the present location in 1915. Prior to 1915 the land was agricultural. The facility currently has 105 employees and the plant is in operation 7 days a week on a 24 hour basis. The company is involved in the manufacture of potassium permanganate (Carox) and specialty products such as sodium permanganate; Denox (a proprietary chemical); PPC 2, 3, pyridinedicarboxylic acid; Carusorb (a potassium permanganate based catalyst); and chlorides, nitrates and carbonates of cesium. Raw materials that are used at the plant include copper sulfate; sulfuric, nitric and

hydrochloric acids; sodium hydroxide; cesium bearing ore; manganese dioxide; ethylene glycol; sodium carbonate; sodium bicarbonate; aluminum oxide and flocculation polymers.

Currently raw materials at the site are received in bulk quantities and are stored indoors. Finished product is stored in warehouses protected from the weather. The facility obtains all of its water from the city of LaSalle and the sanitary and wastewater streams are handled separately. Sanitary wastes from the office, laboratory, locker facilities and specialty products process water is disposed of by the city of LaSalle sewer system.

Approximately 50,000 to 60,000 gallons per day are discharged into the LaSalle Sanitary Sewer System. Storm water run-off is collected in storage areas 1 and 2 (refer to site map and aerial photo), which are of sufficient volume to provide storage for a 5 inch rain (10 year, 24 hour storm event).

Wastewaters from the manufacture of potassium permanganate are eventually discharged into the Little Vermilion River. This wastewater is generated from periodic boiler blowdowns, compressor coolings, rainfall run-off, pumping of the accumulated stormwater and equipment wash water. Wastewater quantity generated is typically 950,000 gallons per day. Before any wastewater enters the Little Vermilion River it first passes through a monitoring building where the ph and absorbance are checked to ensure that the water does not contain excess turbidity or permanganate. From the monitoring station the water is discharged into the

north end of the south settling and treatment pond, which has a surface area of approximately four acres. The water travels to the southeast portion of this pond and enters an overflow box where it then travels via a pipe into the Little River east of the monitoring building.

Solid wastes from the manufacturing activities are disposed of on a regular basis. They are transported in large capacity dumpsters to a specialized Carus-owned landfill which is used only for Carus products. This has been the practice since the early 1970's when wastes were first disposed of at Carus No. 1, located approximately 3 miles west of Ottawa, Illinois. This site was used until 1986 and was replaced by Carus No. 2, located approximately 1 mile east of Carus No. 1.

Public and private drinking water supplies within a four mile radius of Carus Chemical Co. are supplied from groundwater. The geology of the area consists of Wisconsin glacial till overlying the bedrock. The bedrock consists of fractured Silurian and Ordovician-aged dolomites and the St. Peter sandstone. The nearest documented well from the site is .7 mile south and is one of a cluster of four wells used to supply the city of LaSalle. These wells are from 60 to 70 feet deep and draw from the sand and gravel aquifer. The city of Peru, located adjacent to LaSalle on the west, draws its water from the St. Peter sandstone at depths from 2,591 to 2,764 feet. The approximate population that uses groundwater derived from aquifers in the area around Carus

Chemical Co. is:

<u>Distance (miles)</u>	<u>Population</u>
0 to 1/4	0
>1/4 to 1/2	0
>1/2 to 1	9,467
>1 to 2	132
>2 to 3	11,208
>3 to 4	5,240

Illinois Environmental Protection Agency records do not document the existance of any surface water drinking intakes along the 15-mile surface water route downwstream of the site. Almost all drainage from the site flows east and enters the Little Vermilion River. The water then flows south for three quarters of a mile and enters the Illinois River. The water flows in a westerly direction along the remaining 14.25 miles of the surface water pathway. Illinois Department of Conservation records indicate that the nearest State sensitive environment is the DePue Lake Conservation Area, located approximately 13 miles downstream from the site. There are approximately 13.4 miles of total wetland frontage along the 15-mile surface water route.

Land use around Carus Chemical Company is industrial to the north, residential to the west and south, and sparsely populated to the east, with the site being located along the center of the eastern edge of LaSalle. The nearest school is Saint Roch School, located 2,500 feet southwest of the site.

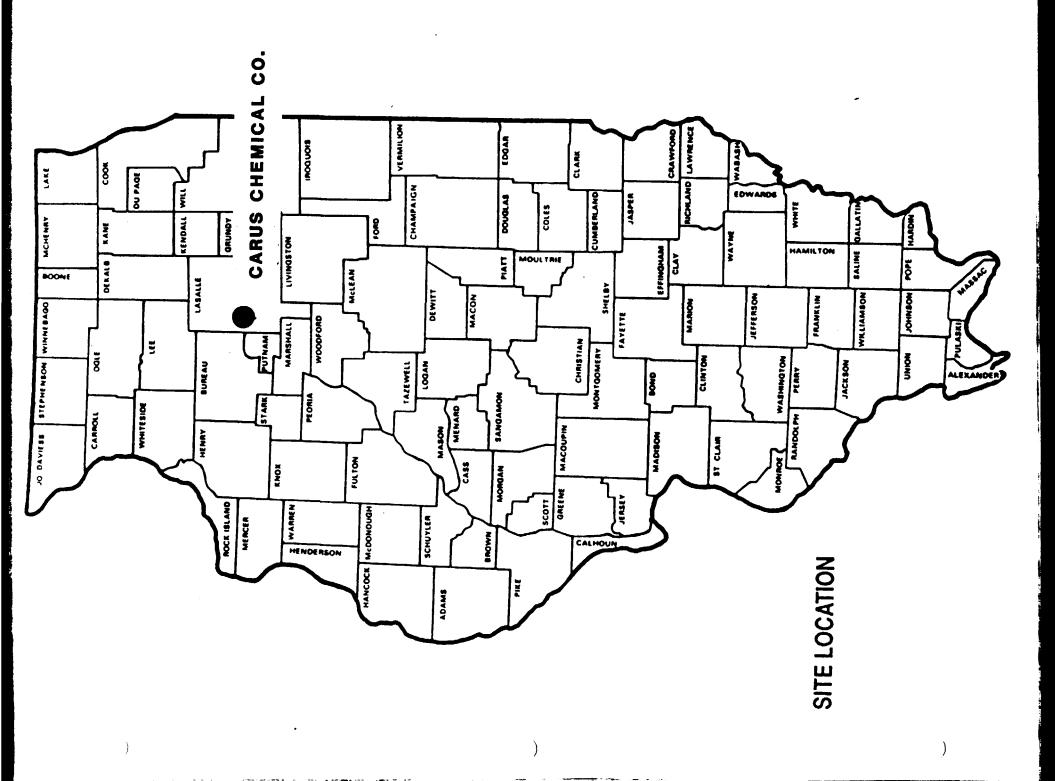
No federal or state endangered species are known to exist within a four mile radius of the site, however sensitive environments within one-half mile of the site consists of approximately 14 acres of wetlands. The total population within a four mile radius of the site is:

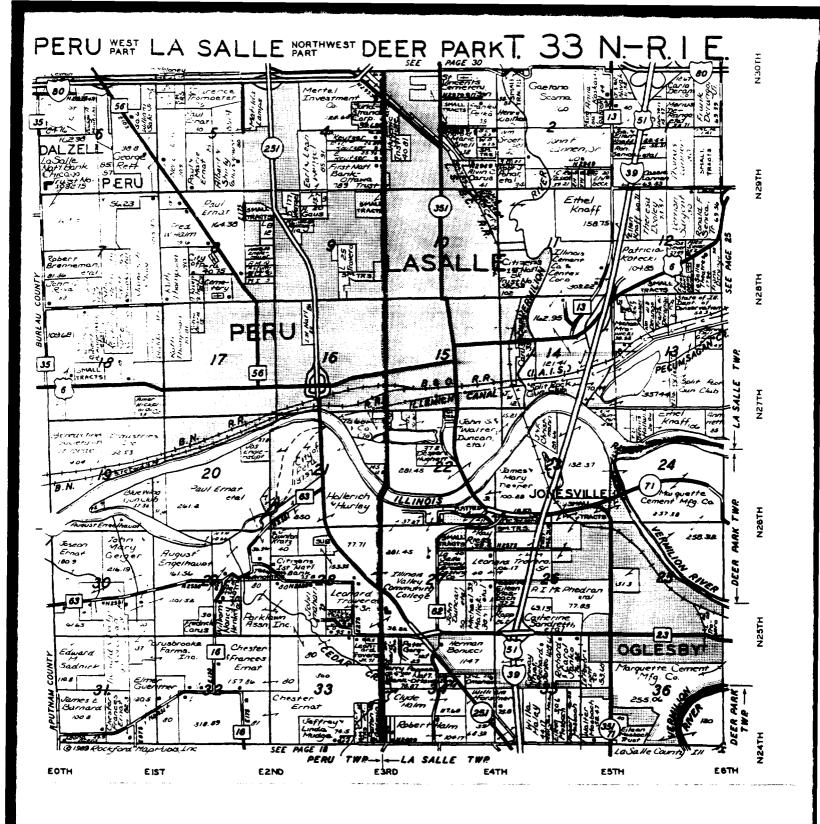
on-site	105
0 to 1/4 mile	1,035
>1/4 to 1/2 mile	2,069
>1/2 to 1 mile	6,229
>1 to 2 miles	6,965
>2 to 3 miles	8,212
>3 to 4 miles	3,099

There has not been any documented air contamination attributable to the Carus Chemical Company site and the plant is required to meet air quality standards as set forth in the various air permits issued to them by the Illinois Environmental Protection Agency. No human health problems have been documented at this facility due to direct exposure to hazardous substances, and this potential is minimized due to access to the site being restricted by fences, guards, 24 hour a day worker presence and natural barriers along the eastern portion of the facility.

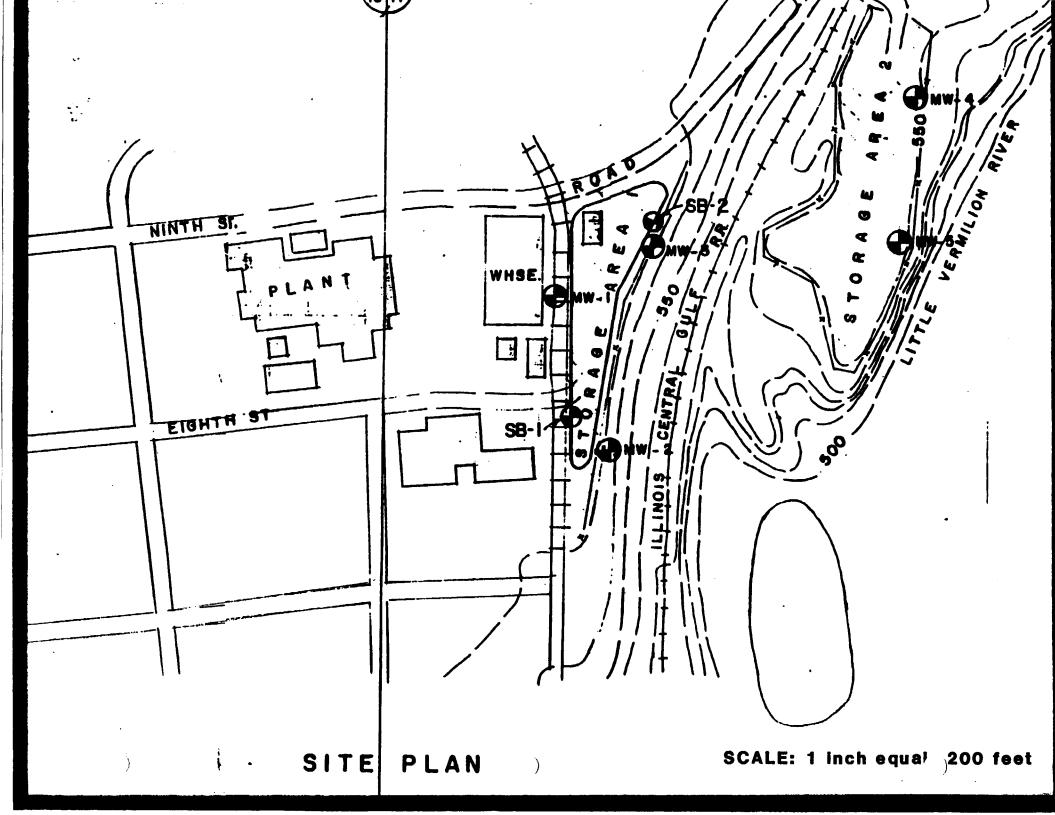
Inspections conducted to date by various regulating bodies have not documented any practices conducted at the facility that have had any adverse effects on the environment. Furthermore, the potential for detrimental

environmental impacts have been lessened by the safety precautions taken at the facility to prevent releases and to contain them should they occur. Given the afore mentioned site conditions, the author assigns a low priority status to this facility and recommends that the United States Environmental Protection Agency schedule a CERCLA Screening Site Inspection as time allows.



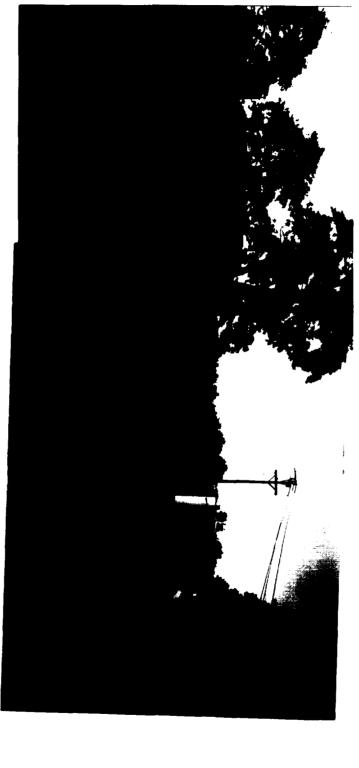


PLAT MAP



 $(g_{k}^{*}(t)) \geq f_{k+1}$ LASALLE ROLLING MILLS--RETENTION POND WATTER MONITORING STATION LITTLE VERMILION RIVER SOUTH SETTLING AND TREATMENT POND CARUS CHEMICAL COMPANY AERIAL PHOTO SCALE: 1 inch equals 200 feet

DATE: MAY 22, 1991	
I. E: 10:10 AM	
PHOTOGRAPH TAKEN BY:	
ROBERT CASPER	
PHOTO NUMBER: 1,2	
LOCATION: L 099 8160003-LASAUS	
CARUS CHEMICAL CO.	
ILD 005 477 666	
COMMENTS: PICTURE TAKEN TOWARD	
SOUTHEAST AND SOUTH	
ALONG STERLING STREET.	
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PHOTOGRAPH TAKEN BY:	
PHOTO NUMBER:	
LOCATION:	
COMMENTS: PICTURE TAKEN TOWARD	



DATE: MAY 22, 1991
1.E: 10:13 AM
PHOTOGRAPH TAKEN BY:
ROBERT CASPER
PHOTO NUMBER: 3, 4
LOCATION: L 0998160003-LA SALLE
CARUS CHEMICAL CO
ILD 005 477666
COMMENTS: PICTURE TAKEN TOWARD
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STREET AND LA SALLE
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-
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ROBERT CASPER		
PHOTO NUMBER: 5		
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CARUS CHEMICAL CO.		
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COMMENTS: PICTURE TAKEN TOWARD		
SOUTHEAST FROM ACROS		
STERLING STREET. PHOTO		
OF THE NORTHWEST CORNER		
OF THE FACILITY		
DATE: MAY 22, 1991		
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ROBERT CASPER		
PHOTO NUMBER: 6		
LOCATION: L0998160003-LASAUE		
CARUS CHEMICAL CO	A COMPANIE OF	
ILD 005 477 666		
COMMENTS: PICTURE TAKEN TOWARD		
EAST ON SEVENTH STREET.		

DATE: MAY 22, 1991
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PHOTOGRAPH TAKEN BY:
ROBERT CASPER
PHOTO NUMBER: 7,8
LOCATION: L 0998160003-1459116
CARUS CHEMICAL CO.
ILD 005 477 666
COMMENTS: PICTURE TAKEN TOWARD
NURTH AND NORTHEAST.
ENTRANCE TO SITE IS
BY STOP SIGN AT LEFT. PHOTOS
TAKEN AT SOUTHWEST CORNER OF
STERLING AND SEVENTH STREET-
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PHOTOGRAPH TAKEN BY:
ROBERT CASPER
PHOTO NUMBER: 9, 10
LOCATION: L0998160003-L454LE
CARUS CHEMICAL CO.
ILD 005 477 666
COMMENTS: PICTURE TAKEN TOWARD
NORTH AND NORTHEAST. PHOTOS
OF RETENTION POND BUILT TO
CATCH ANY RUN-OFF THAT
MAY RESULT FROM UNUSUALLY
HEAVY PRECIPITATION.
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ROBERT CASPER
PHOTO NUMBER: //
LOCATION: L 0998160003-L459118
CARUS CHEMICAL CO.
ILD 005 477 666
COMMENTS: PICTURE TAKEN TOWARD
EAST. SHED CONTAINS
MONITORING EQUIPMENT
WHICH CHECKS WATER QUALITY
OF EFFLUENT PUMPED TO POLD
NEAR THE LITTLE VERMILLION RIVER



PHOTOGRAPH TAKEN BY:

ROBERT CASPER

PHOTO NUMBER: 12

LOCATION: LO998160003-LASALE

CARUS CHEMICAL CO.

TLD OOS 477 666

COMMENTS: PICTURE TAKEN TOWARD

EAST FROM OTHER SIDE OF THE

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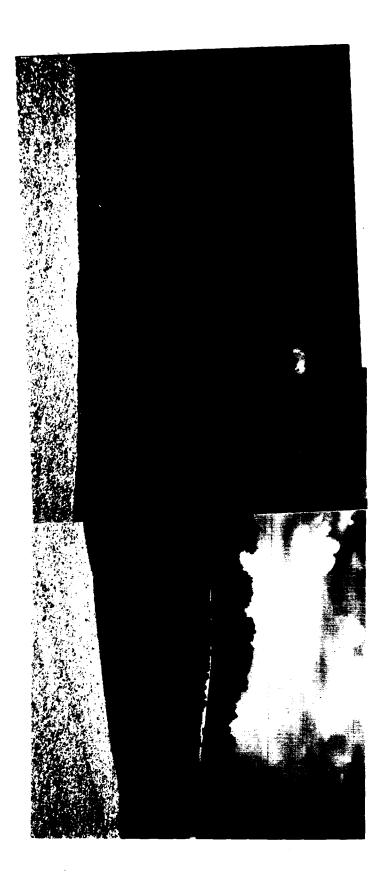
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VER.

DATE: MAY 22, 1991



DATE: MAY 22, 1991
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PHOTOGRAPH TAKEN BY:
ROBERT CASPER
PHOTO NUMBER: 13, 14
LOCATION: L0998160003 - LA SALLE
CARUS CHEMICAL CO.
ILD 005 477 666
COMMENTS: PICTURE TAKEN TOWARD
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15 STORAGE AREA 2
LOCATED BELOW THE
MONITORING STATION.
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PHOTOGRAPH TAKEN BY:
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DATE: MAY 22, 1991
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PHOTOGRAPH TAKEN BY:
ROBERT CASPER
PHOTO NUMBER: 15
LOCATION: L 0998160003 - LASAUE
CARUS CHEMICAL CO.
ILD 005 477 666
COMMENTS: PICTURE TAKEN TOWARD
SOUTH. PHOTO OF WHERE
WATER ENTERS POND.



DATE: MAY 22, 199/

TIME: 11:40 AM

PHOTOGRAPH TAKEN BY:

ROBERT CASPER

PHOTO NUMBER: 16

LOCATION: LO998160003-LASALIE

CARUS CHEMICAL CO.

TLD 005 477 666

COMMENTS: PICTURE TAKEN TOWARD

WEST. WATER FROM THE

POND ENTERS OVER FLOW

AND TRAVELS THROUGH A

DE INTO THE RIVER.



DATE: MAY 22, 199/
I.E: 11:45 AM
PHOTOGRAPH TAKEN BY:
ROBERT CASPER
PHOTO NUMBER:
LOCATION: <u>L0998160003 -LA SAUE</u>
CARUS CHEMICAL CO.
ILD 005 477 666
COMMENTS: PICTURE TAKEN TOWARD
EAST. LITTLE VERMILLION
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OF THE POUD. THE TERRAIN
OROPS SHARPLY TO THE RIVER.
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DATE:
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PHOTOGRAPH TAKEN BY:
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LOCATION:



REFERENCE NUMBER 22

GEPA

United States Environmental Protection Agency
Washington: 8:70-129480 - Agency

NPDES Compliance Inspection Report

OMB No. 2040-0003 Approval Expires 7-31-85

والمنافية	Section A	: National Data System	n Coding		<u></u>					
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Reserved Facility Evaluation Rating	BI	QA	·	Rese	rved					
67 69 70	71	72	73 7	74 75		80				
	Section 8: Facility Data									
Name and Location of Facility Inspected			Entry I	ime	☐ PM	Permit Effective Date				
Carus Chemical Company			}	L AM	LI PM	August 9, 1986				
1500 Eighth Street			Exit Tir	ne/Date		Permit Expiration Date				
	Salle	County	<u> </u>			May 1, 1991				
Name(s) of On-Site Representative(s)		Title(s)				Phone No(s)				
Jack Doyle	l	Analytical La		•		815/223-1502				
Horst Adolph		Manager, Gove	rnment	Relation	ns					
None America 2										
Name, Address of Responsible Official M. Blouke Carus		Title								
m. brouke carus		President Phone No.				Connected				
		815/223-1500			١	Contacted Yes X No				
Ca-	rtion C: 4	Areas Evaluated During	Inenectic			Yes LEU NO				
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S Facility Site Review S Effluent/	Receiving			ng Program		Other:				
Section D: Summary	of Findin	gs/Comments (Attach	additional	sheets if ne	essary)					
No substantive violations were de BMP compliance construction proje without having had to use it. FE flow measurements are still ca See attached report.	ct has	been complete				-				
Name(s) and Signature(s) of Inspector(s)	Agency	Office/Telephone			0	ate				
Charles Corley	IEPA/	ROCKFORD/815-9	87-7760	0		May 23, 1990				
						,				
Signature of Reviewer	Agency	/Office			C	Date				
(Jain Chair	ROCKFORD/815-9		8/20/90							
	R	egulatory Office Use O	nty							
Action Taken			_	Date		Compliance Status Noncompliance Compliance				



DATE:

May 23, 1990

TO:

DWPC/FOS & RECORDS UNIT

FROM:

Charles E. Corley - Region 1

SUBJECT:

Carus Chemical Compliance Evaluation Report

NPDES Permit #IL00026213

Interviewed Jack Doyle

A visit was made to Carus Chemical Company to observe the current operating conditions and to evaluate compliance with the NPDES permit. The day of the visit was mostly cloudy with temperatures reaching 64° F. The following is a report based in information contained in the Agency files and from the visit.

INTRODUCTION

Carus Chemical Company is a manufacturer of potassium permanganate (KMnO4) and employs approximately 120 people at this facility. There are 16 people in the potassium permanganate production section of the plant and 25 people employed at the Speciality Products plant south of the KMnO4 production area. Both production facilities operate seven days a week, 24 hours per day. The Carox plant operates 8 hour shifts. Speciality Products, however, operates 12 hour shifts.

The products manufactured at this site consist of Sodium Permanganate (NaMnO4); Denox a properiateriay chemical; PDC, 2, 3-pyridinedicarboxylic acid; Carusorb, KMnO4 based catalyst; Carulite, manganese based catalyst; potassium permanganate, KMnO4; Cesium compounds with Cl-, NO₃- and CO₃.

SUMMARY

During the past calendar year Carus Chemical Company has had no apparent excursions of their NPDES permit as reported on the monthly discharge monitoring reports. There have been few Agency samples and none of these have indicated effluent excursions from outfall 001.

There are however detailed investigations occurring relative to the character and effect of the pre-treatment waste discharged to the City of LaSalle sewer system. The inquiry concerns the waste products of the manufacturing of PDC from the Specialty Products group.

FACILITIES EVALUATION

All the major wastewater streams are separated at Carus Chemical. The Speciality Products group sanitary and process waste from the south side of the grounds is separate and diverted to the City of LaSalle sewer system. Sanitary waste from Carox manufacturing area goes to the City of LaSalle sewer system. All storm water from the plant property is directed to the upper lagoon adajacent to the manufacturing process and then to the south lagoon. The processed wastewaters generated in the Carox manufacturing area are separate and are discharged to the south lagoon.

Carus Chemical Company Compliance Evaluation Report NPDES Permit #IL00026213 May 23, 1990 Page 2

During the visit, the upper lagoon containing storm water was almost completely empty. The new lagoon built in compliance with the Best Management Practice (BMP) pollution control requirements in Section 307(a)(1) and 311 of the Clean Water Act was empty. This lagoon is intended to receive the potentially pollutional runoff from the plant property and manufacturing areas should there be castrophic events such as storm, fire or explosion.

The lower lagoon is a single cell treatment system which receives the process wastewater and incidental cooling and boiler blowdown water from the Carox manufacturing process. This lagoon discharges directly to the Little Vermillion River. During the visit the content was clear and the effluent was slightly brown in coloration but clear and free from debris and settleable solids. Along the edge of the lagoon there were occasionally schools of minnows which attest to the quality of the water contained in it.

RECORDS AND REPORTS

Laboratory personnel standarize the automatic monitoring equipment for the wastewater prior to discharge to the south lagoon. This is done on a daily basis and the dates and times of the calibrations are indicated on the chart recorder. An effluent sample is collected but is unrefrigerated. There is an inline pH meter and Brinkman Spectrophotometer which monitors the 525 nanometer wavelength. Percent transmittence is recorded by this meter and an alarm is sounded when transmittence drop below 85%. The process supervisor or foreman is responsible for alarm responses. There is an audio visual alarm which sounds during each alarm event.

Laboratory analyses are performed by Carus Chemical's main laboratory personnel. All equipment, maintenance and standardization is likewise done by the main laboratory personnel. Sample collection is the responsibility of the operation department. Laboratory data is recorded on forms separate and distinct from other analytical records. The monthly data for DMR preparation is submitted to Jim Miller, the plant engineer. He in turn compiles the data, summarizes it and forwards it on the monthly Discharge Monitoring Report to EPA.

ATTACHMENTS

Samples were not collected during this visit therefore there are no analytical results to attach. There are attached to this report a copy of the skematic of the water flow of Carus Chemical Company. In addition there is a map locating Carus Chemical Company and the outfall sample points along the Little Vermillion River in LaSalle. Also attached are tabulations of the DMR's and EPA effluent samples. Lab data report and records sheets used by Carus are also attached.

CEC:bp

cc: DWPC/CAS

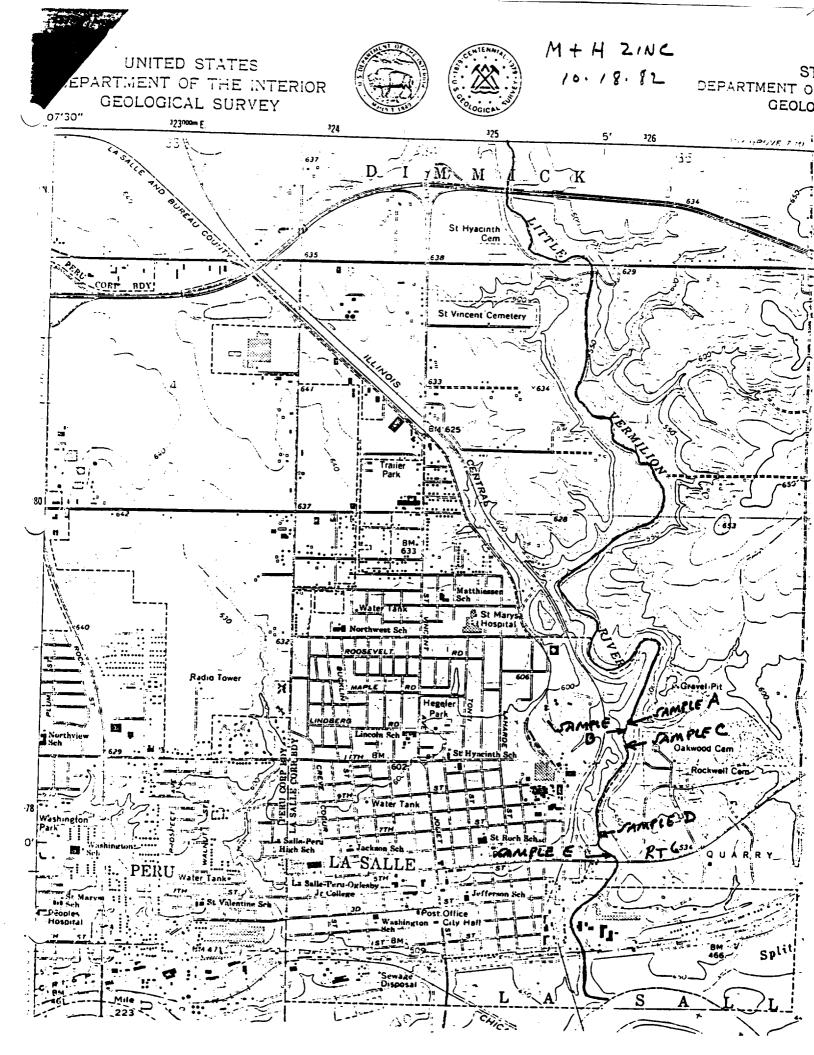
DWPC/Rockford

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WPC 171

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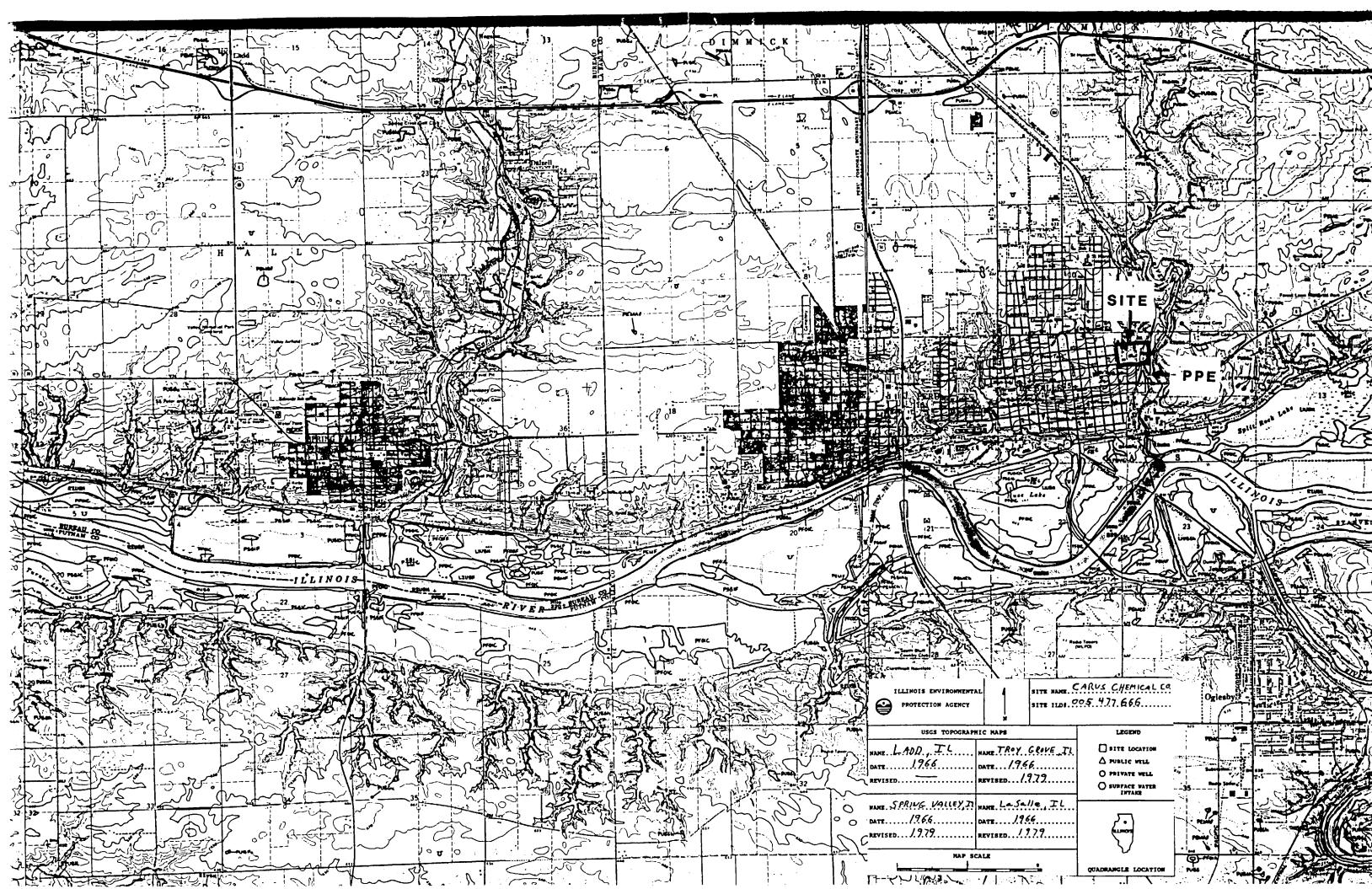
Schematic of Water Flow Carus Chemical Co. LaSalle, LaSalle, IL P. 1 of 1 0.975 0.046 City Water Sanitary Sewer 0.782 0.072 Pilot Plant 0.075 0.057 Evaporation - 0.129 0.008 0.839 Potassium Permanganate Plant Products - 0.004 Water Treatment Landfill Waste - 0.001 0.705 0.067 0.014 0.072 Rainfall Run Off Boilers Periodic pumping of accumulated storm water run off from emergency waste storage site. 0.022 North Lagoon Evaporation 0.033 0.010 South Lagoon 001 _Blowdown_ All flows shown as Million Gallons Per Day Little Vermillion -

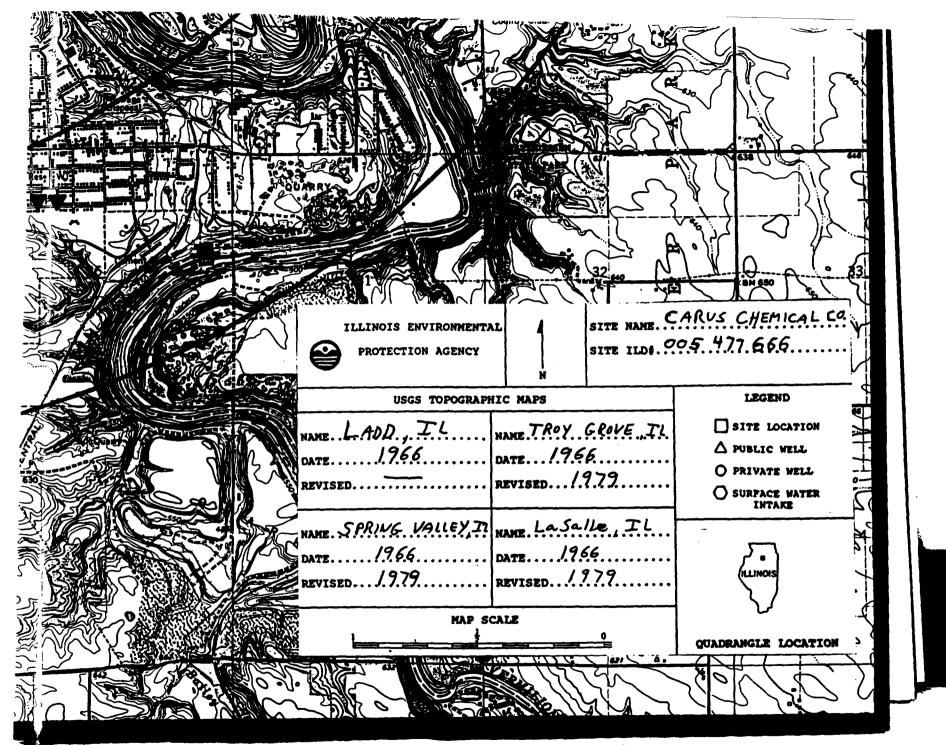


ANALYTICAL LABORATORY REFORT 15-May-90 10:28 AM

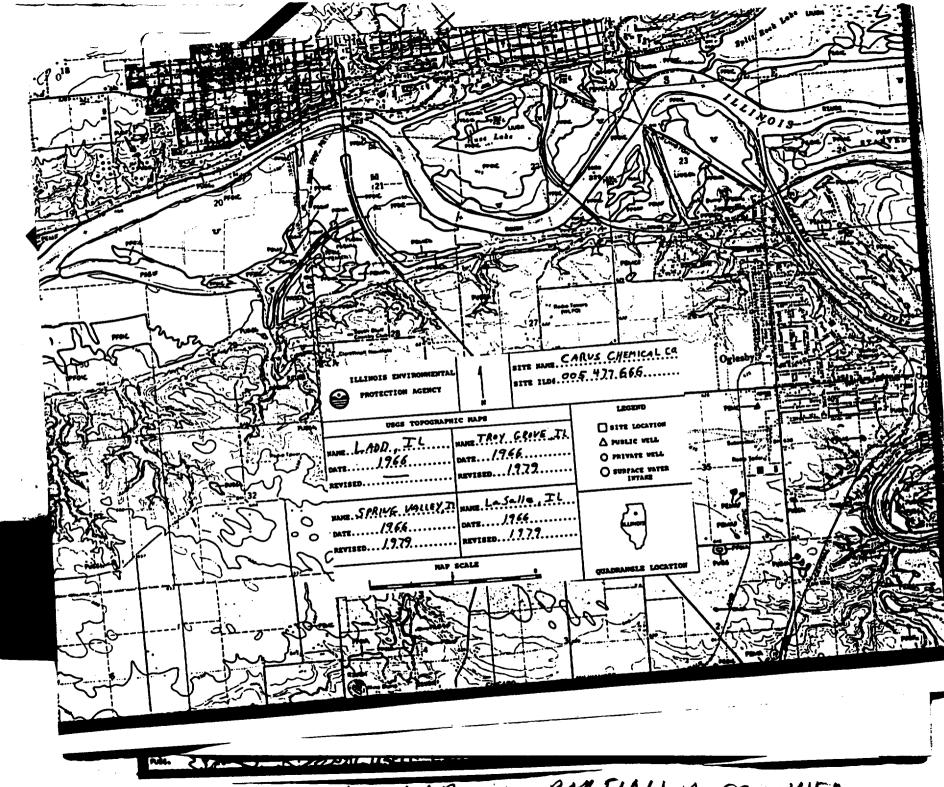
CC: H. ADOLF J. MILLER E. MEYER TO: W. MOSHAGE B. SABOWSKI FROM: RE: DISCHARGE 00: - COMPOSITE FOR STATE REPORT 24 HR COMPOSITE COLLECTED FROM-----10-May-90 TO----11-May-90 SAMPLE COMPOSITE: AUTO SAMPLER 14 SAMPLES IN COMPOSITE 10.20 TIME OF FIRST SAMPLE 1 HOUR INTERVALS NPDES DISCHARGE DISCHARGE 001 CITY WATER LIMITS 001 3.11 @19.7 oC 7.07 @19.8 oC 6.0 - 9.0 TOTAL SUS SOLIDS <= 15.0 NA NA TOTAL Mn <= 1.0 0.33 0.32 OIL-FATS-GREASE <= 30.0 NA NA <= 1.5 MUINOMMA NΑ NA TEMPERATURE OC 16 COLOR COLORLESS COMMENTS:

ALL RESULTS AND LIMITS ARE IN mg/L UNLESS OTHERWISE SHOWN, ALL METHODS PER EPA-600/4-79-020, "METHODS FOR CHEMICAL ANALYSIS OF WATER AND WASTE" LIMITS SHOWN FOR DISCHARGE 001 ARE PER PERMIT #IL0002623



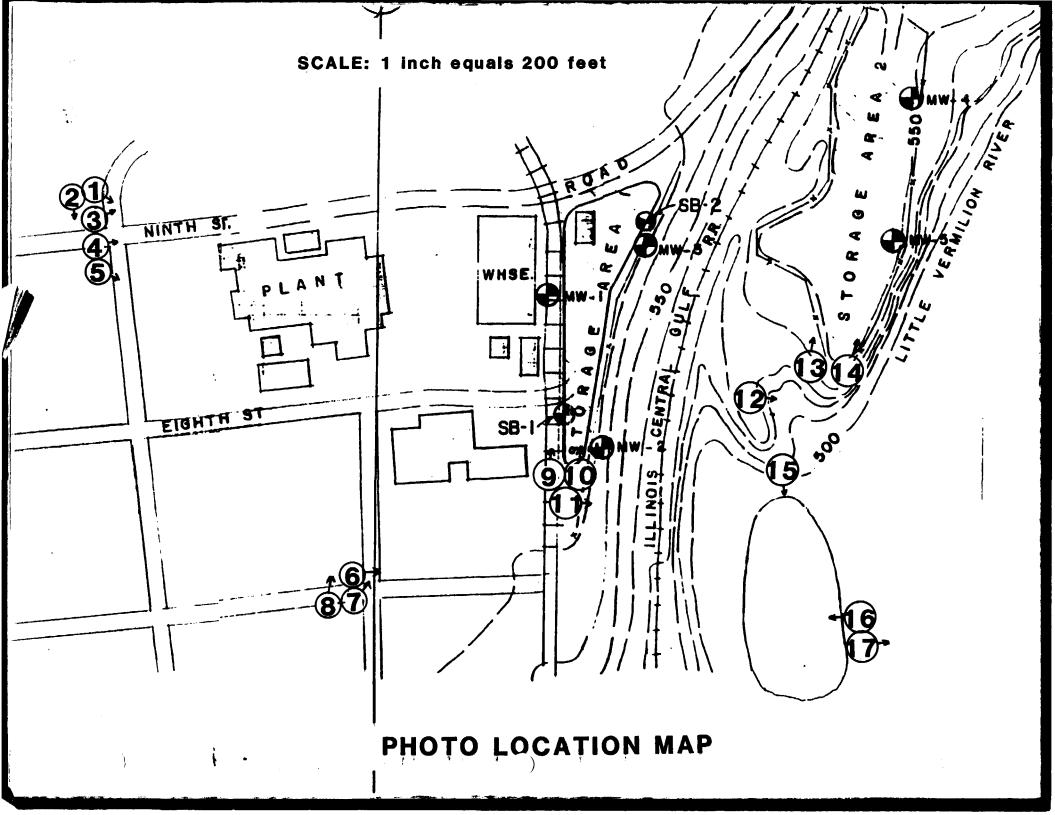


This MAP is partially scanned



THIS MAP IS PARTIALLY SCANNED

4-MILE RADIUS MAP



\$EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION

01 STATE OF SITE MARKET

TLD 005477666

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

IL HAZARDOUS CONDITIONS AND INCIDENTS
01 A GROUNDWATER CONTAMINATION 26047 02 DOBSERVED IDATE 1 X POTENTIAL ALLEGED 03 POPULATION POTENTIALLY AFFECTED 26047
ALL PEOPLE WHO LIVE WITHIN A FOUR MILE RADIUS OF THE SITE
USE GRUUNDWATER FOR DRINKING.
01 : B SURFACE WATER CONTAMINATION 0 02 : OBSERVED (DATE) POTENTIAL ALLEGED 03 POPULATION POTENTIALLY AFFECTED 04 NARRATIVE DESCRIPTION
NO SURFACE WATER INTAKES WITHIN IS MILES DOWNSTREAM OF THE
SITE.
01 C CONTAMINATION OF AIR 02 COBSERVED (DATE) DEPOTENTIAL C ALLEGED 03 POPULATION POTENTIALLY AFFECTED. 27,714 04 NARRATIVE DESCRIPTION
NOWE DUCUMENTED OR OBSERVED
01 U.D. FIRE/EXPLOSIVE CONDITIONS 02 COBSERVED (DATE
NONE DOCUMENTED OR OBSERVED
01 D E. DIRECT CONTACT 02 DIOBSERVED (DATE
SITE IS SURROUNDED BY FENCES AND PATROLLED BY GUARDS.
01 11 F CONTAMINATION OF SOIL 02 5 OBSERVED (DATE 1 POTENTIAL ALLEGED 03 AREA POTENTIALLY AFFECTED 144000 O4 NARRATIVE DESCRIPTION
NONE DOCUMENTED OR OBSERVED
01 L. G. DRINKING WATER CONTAMINATION 26,047 OZ LI OBSERVED IDATE 1 POTENTIAL ALLEGED 03 POPULATION POTENTIALLY AFFECTED 26,047
AU DRINKING WATER IS OBTAINED FROM WELLS.
01 TH. WORKER EXPOSURE INJURY 02 (2 OBSERVED (DATE
NONE DOCUMENTED OR OBSERVED
01 © 1 POPULATION EXPOSURE/INJURY 02 (1 OBSERVED DATE
NONE DOCUMENTED OR OBSERVED

\$EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

L DENTIFICATION
01 STATE 02 SITE NUMBER
TLD 005 477 666

IL HAZARDOUS CONDITIONS AND INCIDENTS ICO	Mayor		
01 D J. DAMAGE TO FLORA 04 NAPRATIVE DESCRIPTION	02 [] OBSERVED (DATE:)	[] POTENTIAL	C) ALLEGED
NONE DUCUMENTED OR	OBSERVED.		*
01 () K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Necture Annells of Specient	O2 [] OBSERVED (DATE:)	O POTENTIAL	☐ ALLEGED
NONE DOCUMENTED O	R OBSERVED		
01 () L. CONTAMINATION OF FOOD CHAIN 04 HARRATIVE DESCRIPTION	02 C OBSERVED (DATE:)	O POTENTIAL	D ALLEGED
NONE DOCUMENTED	OR OBSERVED		
01 () M UNSTABLE CONTAINMENT OF WASTES (See over severy severy having drawn) 03 POPULATION POTENTIALLY AFFECTED.	02 [] OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	O POTENTIAL	() ALLEGED
NONE DOCUMENTED			
01: N DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 Li OBSERVED (DATE:)	D POTENTIAL	□ ALLEGED
NONE DOCUMENTED	OR OBSERVED		
04 NARRATIVE DESCRIPTION	S, WWTPs 02 () OBSERVED (DATE:)	O POTENTIAL	C) ALLEGED
NONE DUCUMENTED	OR OBSERVED		
01 IJ P ILLEGALANAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 COSSERVED (DATE:)	O POTENTIAL	C) ALLEGED
NONE DOCUMENTED	or observed		
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL	, OR ALLEGED HAZAROS		
NONE KNOWN			
II. TOTAL POPULATION POTENTIALLY AFFECTE	D: _27,7/9		
IV. COMMENTS			
		•	
V. SOURCES OF INFORMATION (Con specific references).	B. g., state flos, sample analysis, reported		
IEPA LAND DIVISION IEPA WATER FILES	FILES ILL. DEPARTMENT	OF GONS	ER VATION
IFPA AIR FILES			

SEPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT

LIDENTIFICATION
OF STATE OF SITE NAMES

11 D 005 477666

PART 1 - SITE INFORMA	I ION AND ASSESSMEN					
II. SITE NAME AND LOCATION						
O1 SITE NAME (Logic, common, or descriptive name of all of	02 STREET, ROUTE NO., OR SP					
CARUS CHEMICAL COMPANY		HTH STREET	_			
es any	04 STATE 05 ZP CODE 06		07COUNTY OF CONG			
La Salle	IL 61301	Lasulle	099 IL-14			
09 COORDINATES LATITUDE LONGITUDE						
41 20 05.0 281 05 90.0			.			
10 DIRECTIONS TO SITE (Survey from reprint profit rect)		1 (70 / 16 6	11- 440			
TAKE RT 51 TO LASSILE EXIT. GO	WEST ON KI	6 10 casa	me nou			
TURN NORTH AT STERLING STREET. GO	THREE BLOC	ks TO GIGHT	H SIKEET			
AND TURN RIGHT. ENTRANCE TO SITE	15 STRAIGHT	AHEAD.				
M. RESPONSIBLE PARTIES						
01 OWNER of trous	02 STREET (Business, malling, restal					
CARUS CHEMICAL COMPANY	1500 EIGHT	<u> </u>				
oo ary	04 STATE 05 ZIP CODE	OG TELEPHONE NUMBER				
La Salle 07 OPERATOR of line on and otherwise from annual	IL 6139	18157 223-1500				
O7 OPERATOR of known and afforest from austral	OB STREET (Braness, maling, room	protei)				
OF CITY	10 STATE 11 ZIP CODE	12 TELEPHONE MANGER				
1.	1	()				
13 TYPE OF OWNERSHIP (Check and)		<u> </u>				
A. PRIVATE () B. FEDERAL:	D C. STATE	DD.COUNTY DE.MU	NICIPAL			
D F. OTHER:	0.UNKNO	WN				
14 OWNER/OPERATOR NOTIFICATION ON FILE (Cheef of the county)						
☐ A. RCRA 3001 DATE RECEIVED:	LED WASTE SITE JCENCLA 163 aj	DATE RECEIVED:	C C NONE			
IV. CHARACTERIZATION OF POTENTIAL HAZARD		MEANTH C	AY YEAR			
						
01 ON SITE INSPECTION SET YES DATE 5,279/ DA EPA D 8. EP NO MORTH DAY YEAR D E. LOCAL HEALTH OFF	A CONTRACTOR YES	. STATE D. OTHER	CONTRACTOR			
1		(Bosel)				
CONTRACTOR NAME(S):						
OS SITE STATUS (Choose one) OS YEARS OF OPER OC. UNICHOWN	1915 PRESE	UT DUNKNOW	.			
	MEGODING YEAR ENGING YE	AR				
TNORGANIC SUBSTANCES POSSIBLY PRESENT, INIOWN, ON ALLEGED TNORGANIC SUBSTANCES; POTASSIL	m PEODANEAL	ATT HYDDACH	10011			
SULFURIC ACIDS - COPPER SULFAT	TO CERIUM AND	CHELLEN CON	BOUNDS			
SODIUM HYDROXIDE	, 00,000	000,000				
GROUND WATER (POPULATION / ENVIRONMENT AND OR POPULATION	maux) SOILE	YPOSUPE (EMPLO)	rees)			
GROUNDWAJER (POPULATION/PROTECT)	newly sole:	×1.00 × 00 (
SURFACE WATER (ENVIRONMENT)	SURPACE WATER (ENVIRONMENT)					
AIR (POPULATION/ENVIRONMENT)						
AIR (POPULATION/ENVIRONMENT)						
V. PRIORITY ASSESSMENT						
V. PRIORITY ASSESSMENT 01 PRIORITY FOR INSPECTION (Chack one. If high or medium is checked, complete for 2 - Weeks into	matter and Part 3 - Description of Plazard	has Conditions and Insulating				
V. PRIORITY ASSESSMENT 01 PRIORITY FOR INSPECTION (Check one. If high or medium in checked, complete from 2 - Wester Info 13 A. HIGH 25 B. MEDIUM 17 C. LOW	L. NONE	out Conditions and Inadurity attion accorded, beinglish current dispos				
V. PRIORITY ASSESSMENT 01 PRIORITY FOR INSPECTION (Check one. If high or medium in checked, complete from 2 - Wester Info 13 A. HIGH 25 B. MEDIUM 17 C. LOW	L. NONE		Align forms			
V. PRIORITY ASSESSMENT 01 PRIORITY FOR INSPECTION (Check one. If high or minimum is checked, complete flor 2 - Where ship 12 A. HIGH (Respection required primarity) (Respection required primarity)	Professor Professor		OS TELEPHONE NUMBER			
V. PRIORITY ASSESSMENT 01 PRIORITY FOR INSPECTION (Chart one July) or meaning checked, complete Part 2 - House sub 11 A. HIGH 12 B. MEDIUM Proposition required presenting VI. INFORMATION AVAILABLE FROM 01 CONTACT 102 OF Jagoney Organi	evaluate essess in MONE plus further plus fu		OS TELEPHONE NUMBER			
V. PRIORITY ASSESSMENT 01 PRIORITY FOR INSPECTION (Check one. Flags or medium a checked, complete Part 2 - Weste sale 1 A. HIGH Proposition required pressaling W. I. MEDRIAM Proposition required pressaling VI. INFORMATION AVAILABLE FROM 01 CONTACT 102 OF Jagency Organia	Professor Professor		03 TELEPHONE NUMBER 1815 1224-6827			
V. PRIORITY ASSESSMENT 01 PRIORITY FOR INSPECTION (Chart one July) or meaning checked, complete Part 2 - House sub 11 A. HIGH 12 B. MEDIUM Proposition required presenting VI. INFORMATION AVAILABLE FROM 01 CONTACT 102 OF Jagoney Organi	entitive energy NONE ple buller ple bull	scillon needed, damplete oursent dispos	03 TELEPHONE NUMBER 18/51224-6827 08 DATE			

8	EF	A
-		

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

I. IDENTIFICATION

OI STATE 02 SITE NUMBER
TUD 005 477 666

VLI			PART 2 - WAST	EINFORMATION		TUB DOS	477 666
H. WASTE ST	TATES, QUANTITIES, AN	D CHARACTER			· · · · · · · · · · · · · · · · · · ·		
O1 PHYSICAL S	TATES (Check of the apply)	02 WASTE QUANT		03 WASTE CHARACTE	RISTICS -Check at Mat 40	c+·	
A SOUD E SLURRY POWDER FINES FLIQUID TONS SLUDGE G GAS CUBIC YARDS			if notic guathries ur rependanc	A TOXIC (E) SOLUBLI (B) CORROSIVE F INFECTION C RADIOACTIVE G FLAMMA O PERSISTENT (H) IGNITABI		IOUS JEXPLOSIVE IABLE (R) REACTIVE	
	(\$pac4y)	NO OF DRUMS	·				
M. WASTE T	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·			
CATEGORY	SUBSTANCE N	AAR.	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	OILY WASTE		 				
OFM			 				
PSD	SOLVENTS		[
	PESTICIDES		 				
OCC	OTHER ORGANIC CI			ļ		,	
NOC NOC	INORGANIC CHEMIC	ALS			<u></u>		
ACD	ACIOS BASES		 				
BAS MES	HEAVY METALS		-				
	OUS SUBSTANCES (500 A			l	L		
OI CATEGORY	02 SUBSTANCE N		03 CAS MUMBER	04 STORAGE DISI	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
100	POTASSIUM PERMA	GANATE	7722-64-7				CONCENTRATION
104	COPPER SULFA		7758-98-7				
100	HYDROCHLORIC		7647-01-0				
100	SULFURIC AC		7664-93-9				
100	NITRIC ACI		7697-37-2				
100	SODIUM HYDRO		1310-73-2				1
		· · · · · · · · · · · · · · · · · · ·	1010				
							
			1				
			1				
	···		†	t			
							
·····				†			
V. FEEDSTO	CKS (See Assense for CAS Nume		-1	<u> </u>	<u> </u>	<u> </u>	<u> </u>
CATEGORY			02 CAS NUMBER	CATEGORY	O1 FEEDSTO	OCK NAME	02 CAS NUMBER
FOS				FDS			
FDS			1	FDS			
FDS	 		14.	FDS			
FCS	<u> </u>			FDS			
VL SOURCE	S OF INFORMATION ICA	specific references # (, state Mes. sample analysis	reports (
TEP	A LAND DI	VISION	FILES				

15-MILE SURFACE WATER MAP

Supporting

Documentation

Supporting Documents

Table of Contents

Reference Number	<u>Documentation</u>
1	Illinois Department of Public Health well construction reports/ Geological Water Survey well records.
2	IEPA Site Reconnaissance and Site Representative Interview of May 22, 1991 with Ronald W. Swietek and Horst R. Adolph.
3	FIA Flood Hazard Boundary Map, March 19, 1976. U.S. Department of Housing and Urban Development, for the City of LaSalle, Ill.
4	Illinois Department of Conservation. Review of Sensitive Environment Locations letter of June 12, 1991.
5	Letter from Walter A Moshage, Manufacturing Director of Carus Chemical Co., to Jack Adams, IEPA, concerning incident of April 4, 1984 involving accidental discharge of permanganate into the Little Vermilion River.
6	Copy of City of LaSalle General Wastewater Discharge Permit Application from Carus Chemical Co.
7	U.S. EPA NPDES Compliance Inspection Report of May, 23, 1990 for Carus Chemical Co.

Wil. Japy - Ill. Dept. of Public Health Yellow Copy -- Well Contractor Blue Copy - Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well			- 170-
				. Depth_159ft.
				No
				Depthft.
				In Rock X
		Gravel Pa	cked	
	d. Grout:	(KIND)	FROM (Ft.)	TO (Ft.)
		Puddled		
		Clay	0	68
		Clay		
		L	i	
2.	Distance to Ne	crest:		
	Building	Ft.	Seepage Tile Fid	old
	Cess Pool	<u></u> ;	Sewer (non Cast	iron)
	Privy	<u> </u>	Sewer (Cast iron)	
	Septic Tank			
	Leaching Pit_			
3.	Well furnishes	water for human	consumption? You	s_X_No
		leted		
5.				No_ <u>X</u>
				ion
				Ft.
6.	Well Top Seale	d? YesNo	Туре	
7.		r Installed? Ye		
	Manufacturer_			er
_	How attached t	o casing?		
		d? Yes X		••
		pment Disinfecte		
IU.	Location		type	
11			N-	
	water sample s MARKS:	ubmitted? Yes	110	
NE.	wvuvo:			

CEDI OCICAL AND WATER SURVEYS WELL RECORD

		LOGICAL AND WATE	Cemeta		LCOND	
10. F	Propert Addres	y owner FOREST LA LaSalle, S. Dean Albr	WN CEMETA	Real No	264	8 M _
11.	Permit	No. 106063	Date d	anuary	<u>v 20.1</u>	983.
14. S	nt dept Screen Length	th 120o 159 ft. : Diamin.	Sec Twj Rge	- <u>12.3</u> p. <u>33N</u> - <u>1E</u> v	<i>b</i>	*
	. (in.)	<u></u>	From (Pt.)	To (Ft.)	LOCATI	
	. 5	Steel	0	68	BECTION	PLAT
						-
L		L,		<u> </u>	Ĺ	
16. 3	Size H	ole below casing:5	in. (emelary) 11	_
17. 6	apone	level 60 ft. below o	easing top whi levelft	ch is . when pu	mping at.	25 ^{ft}
•	above	ground level. Pumping r 1 hours.	easing top whi levelft	ch is . when pu	mping at.	25 ¹¹
•	gpm fo	ground level. Pumping	level ft	. when pu		
18.	gpm fo	ground level. Pumping r_1hours.	level ft	. when pu	NESS DEF	
18. 	gpm fo	ground level. Pumping r_1hours.	level ft	THICE	NESS DEF	7768' 1
18. C:	gpm for	ground level. Pumping r_1_hours. FORMATIONS PASSED THE	level ft	THICE	INESS DEF	ተዜያ 1 2
18. 	gpm fo	ground level. Pumping r_1_hours. FORMATIONS PASSED THE tone St. Pete imestone	level ft	тніся	DEF	7768 1 2 5
18. c: 88 ts	lay ands	ground level. Pumping r_1hours. FORMATIONS PASSED THE tone St. Pete imestone limestone	levelft	THICH 1 11 43 65	1: .5	1 2 5
18. c: 88 ts	lay ands	ground level. Pumping r_1_hours. FORMATIONS PASSED THE tone St. Pete imestone	levelft	тніся	DEF	1 2 5
18. c: 88 ts	lay ands	ground level. Pumping r_1hours. FORMATIONS PASSED THE tone St. Pete imestone limestone	levelft	THICH 1 11 43 65	1: .5	1 2 5
18. c: 88 ts	lay ands	ground level. Pumping r_1hours. FORMATIONS PASSED THE tone St. Pete imestone limestone	levelft	THICH 1 11 43 65	1: .5	1 2 5
18. c: 88 ts	lay ands	ground level. Pumping r_1hours. FORMATIONS PASSED THE tone St. Pete imestone limestone	levelft	THICH 1 11 43 65	1: .5	1 2 5
18. c: 88 ts	lay ands	ground level. Pumping r_1hours. FORMATIONS PASSED THE tone St. Pete imestone limestone	levelft	THICH 1 11 43 65	1: .5	1 2 5

SIGNED & Dean albert DATE 2/23/83

IDPH 4.065 1/74 - KNB-1 (59671-12½M Sets-6-74)

write Copy —
III, Dept. of Public Health
Yellow Copy.— Well Contractor
Blue Copy — Well Owner

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well			
				. Depth <u>118</u> ft.
		ıl Bu		
				Depthft.
				In Rock X.
		X Gravel Pa	cked	
	d. Grout:	(KIND)	FROM (Ft.)	TO (Ft.)
		Puddled		
		Clay	0	53
		L		L
2.	Distance to Ne	arest:		
	Building	Ft.	Seepage Tile Fie	eld
	Cess Pool		Sewer (non Cast	iron)
	Privy		Sewer (Cast iron)	
	Septic Tank			
	Leaching Pit _		Manure Pile	
				es_X_ No
4.				
5.		p Installed? Yes		
				ion <u>in well</u>
				Ft.
				
7.		r Installed? Ye		
	Manufacturer	Snappy.	Model Numb	
	How attached to	o casing?		
		d? Yes <u>x</u>		••
	•	pment Disinfecte		
10.	Pressure Tank	Sizegal.	Type250_v	well-x-trol
	Location	in base	ment	····
II.	water Sample S	ubmitted? Yes	No	
nE.	MARKS:			

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner William Kat. Address LaSalle, Il. Driller S. Dean Albrec	TIUOIS		100			
Driller 5. Dean Albrech	Licens	e No	1W2-12U			
11. Permit No. 103802	Date _	June I	C-1140C			
12. Water from rock	13. Cou	ر Ary Light	Salle			
at depth <mark>80 to <u>118</u>ft.</mark>	Sec.	12.4	د ا ا ا			
14. Screen: Diamin.	Twp	. 33N				
Length:ft. Slot	Rge	· — IE				
	Elev	/	 - - - - 			
15. Casing and Liner Pipe						
Diam. (in.) Kind and Weight	From (Ft.)	To (Ft.)	SHOW LOCATION IN			
5 PVC	0	53	SECTION PLAT			
			swaw sc			
16. Size Hole below casing: 5	<u> </u>					
17. Static levelft. below casi		-h i=	1 4 6			
above ground level. Pumping lev						
gpm for 1 hours.		whom pu				
		T	and I Dunger On			
18. FORMATIONS PASSED THROUGH	ЭН	тніск	NESS DEPTH OF BOTTOM			
	<u>-</u> .	тніскі	DEPTH OF BOTTOM			
18. FORMATIONS PASSED THROUGH	-,-	3 3	DEPTH OF BOTTOM			
18. FORMATIONS PASSED THROUGH		3	3			
top soil yellow clay		3	3 6			
top soil yellow clay sand stone		3 3 34	3 6 40			
top soil yellow clay sand stone limestone shale limestone		3 3 34 5 20	3 6 40 45			
top soil yellow clay sand stone limestone shale limestone, shale, sandst	Sone	3 3 34 5 20	3 6 40 45 65 80			
top soil yellow clay sand stone limestone shale limestone	Sone	3 3 34 5 20	3 6 40 45 65			
top soil yellow clay sand stone limestone shale limestone, shale, sandst	Sone	3 3 34 5 20	3 6 40 45 65 80			
top soil yellow clay sand stone limestone shale limestone, shale, sandst	Sone	3 3 34 5 20	3 6 40 45 65 80			
top soil yellow clay sand stone limestone shale limestone, shale, sandst	cone	3 3 34 5 20 15 38	3 6 40 45 65 80			

iDPH 4.065 1/74 - KNB-1 (59671--12 ½M Seta--6-74) ◆ 300-6

W __copy — 111. Dept. of Public Health Yellow Copy — Well Contractor Blue Copy — Well Owner

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

	b. Driven			No
				In Rock
			cked	
	d. Grout:			
	<u> </u>	(KIND) PUGGIEG	FROM (Ft.)	TO (Ft.)
	L		l	
		Clay	U	00
	ľ			
_		·		
2.	Distance to Near			
	Building			eld
	Cess Pool		-	iron)
	Privy		•	
	Septic Tank			
	Leaching Pit		Manure Pile	
3.	Well furnishes w	ater for human	consumption? You	es <u>X</u> No
4.	Date well comple	etedMaj	7 27	· · · · · · · · · · · · · · · · · · ·
5.	Permonent Pump	Installed? Ye	s <u>X</u> Date	No
	Manufacturer Rec	Jacke t _{Ty}	pe Sumb Local	tion In Well
	Capacity fin	gpm. Depth of	Setting1	.05Ft.
6.	Well Top Sealed	Yes No	Туре	
7.	Well Top Sealed Pitless Adapter	Installed? Ye	es No	X
	Manufacturer		Model Numb	per
3 .	Well Disinfected	? Yes X	No	
	Pump and Equips			No
٠.	Location			
,	Water Sample Sul			· · · · · · · · · · · · · · · · · · ·
	water Sample Sui MARKS:	mittear Ies	140	

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Addin Drill 11. Perm 12. Wate at de 14. Scre Leng	ress P.O. BOX 465 ler S. Dean Albr nit No. 93984 refrom Limeston epth 10 to 150 ft. en: Diam. in. gth: ft. Slot	LaSalle Lecht Licens Date 13. Cour Sec. Twp	. II. No102 May 21 tyLaSa 12.	-120 -1980 11e
Drill 11. Perm 12. Wate at de 14. Scree Leng 15. Casi	ler S. Dean Albrait No. 93984 prit No. 1 imeston 1 imeston 150 ft. en: Diam. in. gth: ft. Slot	Pecht Licens Date Date Pecht Licens Date Sec. Twp. Rge.	May 21 May 1 LaSa 12, 33N 1E	-120 -1980 11e
11. Perm 12. Wate at de 14. Scree Leng 15. Casi	nit No	Date	May 21 hty LaSa 12. 33N 1E	1980 11e
at de 14. Scre Leng 15. Casi	epth 10 to 150 ft. en: Diamin. gth:ft. Slot	Sec. Twp.	12. 2 33N 1E	
at de 14. Scre Leng 15. Casi	epth 10 to 150 ft. en: Diamin. gth:ft. Slot	Sec. Twp. Rge.	12./3 33N 1E	
Leng 15. Casi	en: Diamin. gth:ft. Slot	Twp.	1E	
Leng	gth:ft. Slot	Rge.	- <u>1E</u> -	
15. Casi				
	ing and Liner Pipe	Elev		1 1 1 1
	ing and Liner Pipe		. —	
Diam /in				
		From (Ft.)		SHOW CATION IN
5	Steel	0		TION PLAT
			//2	,~C > E
16 51-	Vola halam analam	in.	Commen	al operation
	Hole below casing:ic level _50_ft. below o		ih ia 11	al operation
	e ground level. Pumping			
	for <u>1</u> hours.	16461	wnen bambin	y uu
35				
18.				
	FORMATIONS PASSED THE	ROUGH	THICKNESS	DEPTH OF SOTTOM
To	p Soil	юпан	THICKNESS	DEPTH OF SOTTON
	p Soil	ROUGH		5
Cla	p Soil		5	5 10
Cla	p Soil		5	5
Cla	p Soil		5	5 10
Cla	p Soil		5	5 10
Cla	p Soil		5	5 10
Cla	p Soil		5	5 10
Cla	p Soil		5	5 10
Cla	p Soil		5	5 10
Cla	p Soil		5	5 10
Cla	p Soil		5	5 10
Cla	p Soil	s of Shal	5 5 e 140	5 10
Cla	p Soil ay mestone w/streak	s of Shale	5 5 e 140	5 10 150
18.				

IDPH 4.065 1/74 - KNB-1 (59671—12½M Setu—6-74) White CoIII. De, f Public Health
Yellow C - Well Contractor
Blue Copy - Well Owner

FILL IN ALL PERTINENT INFORMATION RE ESTED AND MAIL ORIGINAL TO STATE DE-PARTMENT OF PUBLIC HEALTH, ROOM 6 to, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well
	a. Dug Bored Hole Diamin. Depthft.
	Curb material Buried Slab: YesNo b. Driven Drive Pipe Diam. 6in. Depth 177 ft.
	c. Drilled X Finished in Drift In Rock 325.
	Tubular Gravel Packed
	d. Grout: (KIND) FROM (Ft.) TO (Ft.)
٠.	
2.	Distance to Nearest: Building Ft. Seepage Tile Field
•	Cess Pool Sewer (non Cast iron)
	Privy Sewer (Cast iron)
	Septic Tank 150 Barnyard
	Leaching Pit 200 Manure Pile
	Is water from this well to be used for human consumption?
	Yes X No No Date well completed 5-5-68
5.	Permanent Pump Installed? YesNoX ManufacturerType
	Manufacturer
6.	Well Top Sealed? YesNo
	Pitless Adaptor Installed? YesNo
	Well Disinfected? Yes No
	Water Sample Submitted? YesNoX
	MARKS: 6" PIPE WAS DRIVEN FROM
UR	FACE WELL IN TO BED ROCK THE
	IL AMNULAR SPACE WAS FILLED WITH
EN	TONITE AND CUTTINGS

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

, 10. Dept. 1	Mines and Minerals permit l	No.4728	`	lear <u>1968</u>
11. Proper	ty owner CLEM JASIE	K	Well No.	1
Addres	STWP 33 M. 8	d SA L	E	4
Drill e(CHAS, E. WOLD RUFF	Ca_ Licens	e No. 92	-409
12. Water i	from SAND STON	三 13. Cour	ty <u>LA</u> .	SALE
	th 285 to 325 ft.	Sec.		
	: Diamin.		33-11	
Length	n:ft. Slot	IE Rng.		
		Elev	·	┠╼┼╌╏╸ ┪╸
15. Casing	g and Liner Pipe			
Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)	SHOW LOCATION IN
1 4	T.G. BIK 19	0	177	SECTION PLAT
6	P.E. 11 15#	159	225	500N 2000W
	PERFORATED			SE/C NE
16 Sino H	lole below casing:			0-7
	level <u>95</u> ft. below casi		hie /	ft.
	ground level. Pumping lev			
	or hours.	,		,
10	FORMATIONS PASSED THROUGH		ТНІСК	NESS DEPTH OF
18. Cha	- Charles Photos Inkoo			NESS DEPTH OF BOTTOM
SHALE	•		103	190
•	FLIME SHELL	C Mulio	1	170
_	_	3 7 HIV	- -64	
COAL			4	5 175
SANDR	OCK		30	205
LIME			9	5 230
		· · · · · · · · · · · · · · · · · · ·	-	226
CLAY			50	37.33
LIME	CON N.G		110	300
CONTINUI	ON SEPARATE SHEET IF	NECESSARY)	770	303
	N IOI			
SICNED	194-4			10-10

White - III. I .. of Public Health Yellow Copy - Well Contractor Blue Copy - Well Owner

FILL IN ALL PERTINENT INFORMATION & QUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, BUREAU OF ENVIRONMENTAL HEALTH, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62701. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well a. Dug Bored Hole Diam
	d. Grout:
	(KIND) FROM (Ft.) TO (Ft.)
2.	Distance to Negrest:
	Building 35 Ft. Seepage Tile Field 75/
	Cess Pool Sewer (non Cast iron)
	Privy Sewer (Cast iron) Barnyard
	Leaching Pit Manure Pile
2	Is water from this well to be used for human consumption?
3.	vos X No
4.	Yes No No
5.	Permanent Pump Installed? Yes No
J .	ManufacturerType
	Capacitygpm. Depth of settingft.
6.	Well Top Sealed? Yes No
	Pitless Adaptor Installed? YesNo
	Well Disinfected? Yes No
	Water Sample Submitted? YesNo
REI	MARKS:

	SURVEYS			
10. Property owner The - Course	- 11.0	1 + 624	mp	ע
10. Property owner	Til CURRY	Well No	·	<u></u>
Address リナット・デロイ	rece J	<u> </u>	17	
Driller Charles Fig. 11. Permit No. 83006	Licens کینگ ہے Date ہر	ie No. يَدُب	70	y
12. Water from St. Pates San	13. Cou	من برسر بروه	10	000
Formation				<u> </u>
at depth <u>362</u> to <u>10.55</u> ft.		11,2		
14. Screen: Diamin.		334	•	
Length:ft. Slot	-	<i>IE</i> _	. [
15. Casing and Liner Pipe	Elev	/	X	
Dium (in.) Kind and Weight	From (Ft.)	To (Ft.)		SHOW
5 Schidul 40 gue	0	40	SEC	CATION IN TION PLAT
1/20-NSF 2.8711				• /
Had Not work				
16. Size Hole below casing: 5	in			
17. Static level 40 ft. below cast	ing top which	ch is	/	ft.
above ground level. Pumping lev	el 45 11.	whon no		1/1
		when pu	шрик	g al <u>۲</u> ۲ ۲ ۲ ۲ ۲ ۳ ۳
gpm for <u>f</u> hours.		when pu	mprik	g at <u>/ </u>
gpm for hours. 18. FORMATIONS PASSED THROUGH	····	тніск		······································
gpm for hours. 18. FORMATIONS PASSED THROUGH	····			
gpm for hours. 18. FORMATIONS PASSED THROUGH	····	тніск	NESS	DEPTH OF BOTTOM
gpm for hours. 18. FORMATIONS PASSED THROUGH	····	тніск	NESS 10	DEPTH OF BOTTOM
gpm for hours. 18. FORMATIONS PASSED THROUGH	····	тніск	NESS	DEPTH OF BOTTOM
gpm for hours. 18. FORMATIONS PASSED THROUGH	····	тніск	NESS 10	DEPTH OF BOTTOM
gpm for hours. 18. FORMATIONS PASSED THROUGH	····	тніск	NESS 10	DEPTH OF BOTTOM
gpm for hours. 18. FORMATIONS PASSED THROUGH	····	тніск	NESS 10	DEPTH OF BOTTOM
gpm for hours. 18. FORMATIONS PASSED THROUGH	····	тніск	NESS 10	DEPTH OF BOTTOM
gpm for hours. 18. FORMATIONS PASSED THROUGH	····	тніск	NESS 10	DEPTH OF BOTTOM
gpm for hours. 18. FORMATIONS PASSED THROUGH	····	тніск	NESS 10	DEPTH OF BOTTOM
gpm for hours. 18. FORMATIONS PASSED THROUGH	····	тніск	NESS 10	DEPTH OF BOTTOM

SIGNED Charles Fifted DATE 1-16-80

IDPH 4,065 10-7 KNk

White Copy III. Dec Public Health Yellow Co. - Well Contractor Blue Copy Well Owner

PILL IN ALL PERTINENT INFORMATION REF STED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 61. STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well			
	a. Dug	Bored Ho	le Diami	n. Depthft.
	Curb materi	zl Bu	ried Slab: Yes_	No
	b. Driven	Drive Pipe	e Diamin	. Depthft.
	c. Drilled X	Finished i	n Drift X.	In Rock
	Tubular X	Gravel Pa	cked	•
	d. Grout:	(KIND)	FROM (Ft.)	TO (Ft.)
		puddled	0	48

_			<u></u>	<u> </u>
2.	Distance to Ne		, m., n.	25
	- n 1	Tome Ft.	Seepage lile Fi	eld 72
			Sewer (non Cast	
	Septic Tank	50	Sewer (Cast iror BarnyardXX	ERR 60
	Leaching Pit _	none	Manure Pile	none
2				
J.	Yes X	is well to be use	ed for numan con	isumption r
4	Date well comp	leted April	22. 1969	
5	Date wen comp	n Installed 2 V	X	N ₊
J.	Manufacturer R	ed Jacket	Type S	No ubmersible
	Capacity 1/3	ann Dent	h of setting	92 ft.
c		Yes		
7	Pitless Adaptor	Installed / I	88 <u> </u>	lo
		d? Yes		
9.	Water Sample St	bmitted? Yes		40 X
			•	•
REN	MARKS:			

FI		

C	EOLO	GICAL	WATER	SURVE			R WEL	L R	ECORI)
10. 11.	Dept. I Proper Addres Driller Water I	Mines and ty owner s 1902 S Des	Minerals Geo.Bla Plain an Alb Shale Formation		io. Peru	cense Coun	Well No [111n No. 92 ty	Yfoo ois ois asai	1969 9 0 1e	
	Screen Length	: Dicom n:ft	110 ft. 5 in.	•		Sec Twp. Rng. Elev	<u>1E</u>	-		
		and Line					 .	. └		
	m. (in.)		d and Weig	ght		Ft.)	To (Ft.)	Lo	SHOW	IN
	5	ga:	lv		0		48	SEC	TION P	LAT 'Æ
L								' '	_	•
						I		ω_{ω}	c sw	2
16. 17.	Static above	ole below level ground le r1 h	casing:_20 ft. belovel. Pumpours.	5 ow casin ping leve	_in. ng top	which	h is when pu	1½	g at _	3 ^{ft.}
18.										•
vellow clay							ТНІСК	NESS	DEPTH	oF
ye	llow	clay	S PASSED	THROUG	Н		тніск	•	DEPTH BOTTO	of M
ye	llow ay cl	cl ay Lay	IS PASSED	THROUG	Н			•	DEPTH BOTTO 11 15	OF
ye	llow ay cl ayel	cl ay lay lay	S PASSED	THROUG	iH			•	DEPTH BOTTO 11 15	of M
ye gr gr gr	llow ay cl ayel y sar	cl ay lay lay	S PASSED	THROUG	Н		1 4 3	•	DEPTH BOTTO II 15 18 25	of M
ye grant	llow ay clayed ayed y sar y sar y sar	cl ay lay lay id lay	S PASSED	THROUG	H		1 4 3	1	DEPTH BOTTO II 15 18 25 70	of M
ye gr ggr ggr ggr ggr ggr ggr ggr ggr ggr	llow ay cl ayel y sar ay cl	clay lay lay lay	S PASSED	THROUG	Н		1 4 3	1	DEPTH BOTTO	of M
ye gr ggr dgr dci dr cl	llow ay cl ayet y sar ay cl y sar ay y sar ay y sar ay	clay lay lay id lay id	S PASSED	THROUG	Н		1 4 3 1 1 7	2	11 15 27 27 27 27 27 27 27 27 27 27 27 27 27	
ye grader driver driver grader	llow ay cl ayel y sar ay cl y sar ay y sar ay y sar	clay lay lay id ivel		THROUG	Н		1 4 3	2	15 15 18 25 39 40 47	
ye gr ggr ggr dgr cl gr so	llow ay cl ayel y sar ay cl y sar ay y gra ay ay ay	clay lay lay lay lay lay lay lay lay lay		THROUG	H		1 1 7 011	2 8 3	11 15 18 25 39 40 47 65 78	of
ye ggr ggr dgr dcl gr so	llow ay clayel y sar ay clay y sar ay y gra ay ay ay ay ay ay ay ay	clay lay lay id ivel nale ray sha					1 4 3 1 1 7	2 8 3	11 15 27 27 27 27 27 27 27 27 27 27 27 27 27	<u>of</u>

DATE May 23, 1969

SIGNED S Dean albrecht 6.4.

White Co. 111. Deg. of Public Health Yellow Copy — Well Contractor Blue Copy — Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION: JUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Curb materia b. Driven c. Drilled	al Bu	ried Slab: Yes_ e Diamin. In Drift	Depth 100 ft. No ft. Depth ft. In Rock
	d. Glout.	(KIND)	FROM (Pt.)	TO (Ft.)
		haleٹر		
		}		
		L	<u> </u>	L
2.	Distance to Ne	urest:		
	Building	Ft.	Secpage Tile Fig	eld
	Cess Pool		Sewer (non Cast	iron)
	Privy		•)
	Privy Septic Tank	<u>75 </u>		
	Leaching Pit_			
3.	Well furnishes	water for human	consumption? Y	esNo
4.	Date well comp	leted	/73 - Dry ilo	le
5 .	Permanent Pum	p Installed? Ye	s Date	No
				tion
				Ft.
6.	Well Top Sealed	1? YesNo.	Туре	
7 .	Pitless Adapter	Installed? Ye	.s No	
	Manufacturer	·	Model Numb	ner
	How attached to	o casing?		
8.	Well Disinfecte	d? Yes	No	
9.	Pump and Equip	pment Disinfecte	d? Yes	No
10.	Pressure Tank	Sizegal.	Туре	
	Location			
11.	Water Sample St	ubmitted? Yes	No	
	MARKS:			
	net.	MOTO		

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Address 2705 St Vincents Avenue - Lessile, Illinois

Well No.

10. Property owner Job Bus pateriaki

	Driller	No. 75202	ling	Licens	e No.	02-5	231
11.	Permit						
12.	Water i	irom <u>ධ්යය.c</u> Fermetion		13. Cou	inty <u>للم</u>	<u> </u>	:
	Screen Length	th 160 to 100 ft. Diamin. ft. Slot		Sec. Twp Rge	31	6	
_	m. (in.)			From (Ft.)	To (FL)) ——	#HOW
-		Plastic		0	162		CATION IN TION PLAT
-	5	Pinsone			3.07.		NENE;
-						l	
		<u> </u>				}	
16.	Size H	ole below casing: levelft. below	200120	in.	-h t-		£4
17.	above	ground level. Pumping	cosing level	top water	when p	moin	11.
		r hours.	,				,
18.	ı	ORMATIONS PASSED TH	ROUGH	····	THICH	NESS	DEPTH OF
	Top	Sol1				1	5
-	Cla j	<i>†</i>			159	5	160
	[مرائي	la			2/10)	1100
	<u> </u>						
				· · · · · · · · · · · · · · · · · · ·		·	
					1		
					1		
(C	UNITHO	e on separate shee	T IF N	ec ess ary	7		
						/	172
		e on separate shee				123	171

IDPH 4.065 1/74 - KNB-1

White Copy
III. Dept 'ublic Health
Yellow Cc; -Well Centractor
Blue Copy - Well Owner

PARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well
	a. Dug Bored Hole Diamin. Depthft.
	Curb material Buried Slab: YesNo
	b. Driven Drive Pipe Diamin. Depthft.
	c. Drilled X Finished in Drift X In Rock
	Tubular X Gravel Packed
	d. Grout:
	(KIND) FROM (Ft.) TO (Ft.)
	Puddled clay 0 68
_	
2.	Distance to Nearest:
	Building 20 Ft. Seepage Tile Field 120
	Cess Pool none Sewer (non Cast iron) none
	Privy none Sewer (Cast iron) 20 Septic Tank 100 Barnyard none
	Septic Tank 100 Barnyard none
	Leaching Pit none Manure Pile none
3.	Is water from this well to be used for human consumption?
	Yes No
4.	Tate well completed July 17, 1968
<u>,</u>	ment Pump Installed? Yes X No
	Type submersible
	Type submersible submersible submersible ft.
	'? Yes <u>v</u> No
	'alled? YesNo
	'>\$ <no< td=""></no<>
	Yes NoX

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

11. 12. 14.	Proper Addres Driller Water i at dept Screen Length	Mines and Minerals p ty owner John III ss 712 13 th S ss 712 13 th S ss 712 13 th S romsand& arc formation th 52-75 f c Diam. 5 in ff. Slot	<u>welct</u> Li 13.	Cour Sec. Twp	6 Well No 1113 See No. 22	· 055	<u> </u>
		,	The second		To (Ft.)		SHOW
5	m. (in.) II	Kind and Weight	From	C			CATION IN TION PLAT
						,	No.
	Static above	ole below casing: 5 level 18 ft. below ca ground level. Pumping le r 2 hours.	sing to.	which	h is when pu	nigm.	ft. g at <u>15</u>
18.	F	FORMATIONS PASSED THRO	UGH		THICK	NESS	DEPTH OF DOTTOM
T.	Π		 		5		5
		0]0)					10-
		ravel			25		35
	11011	clay, sano			,	٠	ن ع د
	y cl	яy			1.3	;	52
		gravel			23	;	75
	NTINIII	ON SEPARATE SHEET IF	NECESSA	RY)			
							L

White Capy -III. Doub. of Public Health Yellow Copy - Well Contractor Blue Copy - Well Owner

INSTRUCTIONS J DRILLERS

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GEOLOGICAL AND WATER SURVEYS WELL RECORD

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

		10.	0. Property owner HEBERT SCHALLE Well No. 2-	
1.	Type of Well		Address PKRV	
	a. Dug Bored		Driller ACRIENT SCHIEF License No. C.72-C.1425	<u>, </u>
	Curb material Butled Slab: Yes X No No	11.	1. Permit No. 28824 Date 8-31-25	
	b. Driven in. Depthft.		2. Water from CANVILL 13. County LA SALLE	
	c. Drilled Finished in Drift In Rock			ì
	Tubular Gravel Packed		at depth .75 to .38 ft. Sec 18.7	l
	d. Grout:	14.	4. Screen: Diam. in. Twp. 334	ı
	(KIND) FROM (FL) TO (Ft)		Length:ft. Slot Rge	l
			Elev	l
		15.	5. Casing and Liner Pipe	i
		Die	Diam. (in.) Kind and Weight From (Ft.) To (Ft.) SHOW LUCATION IN	
	·		QU 10 SECTION PLAT	
2.	Distance to Negrest:	1-1	57 LETTER SE NUISW	
	Building 40 Ft. Seepage Tile Field 100	-		
	Cess Pool Sewer (non Cast iron)	L		
	Privy Sewer (Cast iron)	16.	6. Size Hole below casing:in.	
	Septic Tunk / De Barnyard	17.	7. Static level 18 It. below casing top which is(t.	
	Leaching Pit Manure Pile		above ground level. Pumping levelft. when pumping at	
	Well furnishes water for human consumption? Yes 1. No		gpm for hours.	
	Date well completed 9-2-28		FORMATIONS PASSED THROUGH THICKNESS DEPTH OF	
5.	Permanent Pump Installed? Yes Date No	18.	B. FORMATIONS PASSED THROUGH THICKNESS DEPTH OF BOTTOM	
	ManufacturerTypeLocation		TOP 3014 11	
	Capacitygpm. Depth of SettingFt.			
6.	Well Top Seuled? YesNoType		XIELLOW CLAY 14 15	
7.	Pitless Adapter Installed? Yes _ No		SOFT BLUK SHALK 20 35	
	Manufacturer BINIER Model Number 5Pt 16 Pl. 2WIN			
	How attached to casing? <u>C. L. P. M. Ph. U</u>		CERAVKL 3 38	
	Well Disinfected? YesNo		RED SHALK 6 4/4	
	Pump and Equipment Disinfected? YesNo			
10.	Pressure Tank Sizegal. Type			
	Location	·		
	Water Sample Submitted? Yes No			
RE	MARKS:			
			}	
			CONTINUE ON OUR ALL TO SUPERIOR TO MOUNT AND	
		(C	(CONTINUE ON SEPARATE SHEET IF NECESSARY)	
		616	IGNED PACE 11-12-15	
		ગાંહી	UNEU CARROLL DATE	

₩4.065 1/74 - KNB-1

White Cop; **Public Health** Yellew Ct. - Well Contractor Blue Copy -- Well Owner

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

b. Driven X c. Drilled Tubular	l B Drive Pip Finished	ole Diamin uried Slab: Yes_ be Diamin. in Drift acked	No Depth_ 2.2 ft.
d. Grout:	(KIND)	FROM (FL.)	TO (Ft.)
Cess Pool	Ft.	Seepage Tile Fie Sewer (non Cast Sewer (Cast iron) Barnyard	iron)
Leaching Pit	·	Manure Pile	
3. Is water from the Yes	is well to be us	ed for human cons	sumption?
Permanent Pump Manufacturer	Installed?	resI Type th of setting	No_X
Capacity		-	·
6. Well Top Sealed			
	Installed?	(es No	

FROM SURFACE TO 82' THE SMALL ANNULAR SPACE WAS FILLED WITH BENON E & CUTTINGS

GEOI	OGICAL.	WATER	SURVEYS	WATER	WELL.	RECORD
ULVL	JULIUNE	MU TO		MALLIN	77	

GEOLOGICAL WATER SURVE	SYS WATE	H WEL	LH	ECORD	ļ
10. Dept. Mines and Minerals permit 1 11. Property owner Lag GARL Sp. Address GARL Sp. Driller CHASE WOOD RE 12. Water from SALD & CARLE	CC Licens	Well No	ER	U49	
at depth St to 94 ft. 14. Screen: Diamin. Length:ft. Slot 15. Casing and Liner Pipe	Sec. Twp	33-	4	•	
Diam. (in.) Kind and Weight L. R.K. /4" L. R.K. /4" PERICRATED 16. Size Hole below casing: 17. Static level 3 4 ft. below casing above ground level. Pumping level.	ng tọp whic	82 95"	SE	SHOW CATION I TION PL	AT N
gpm for hours. 18. FORMATIONS PASSED THROUGH	CH CH	THICK	NE 88	25 95	
					_
(CONTINUE ON SEPARATE SHEET IF I	NECESSARY)				
ON I WE			سر ـ		<u>_</u>

White Capy — Ill. Dapl. of Public Health Yellew Capy — Well Contractor Blue Capy — Well Owner

INSTRUCTIONS TO TILLERS

FILL IN ALL PERTIMENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well		_	
	a. Dug	Bored Ho	le Diam. <u>5</u> in	. Depth <u>50</u> ft.
				No
	b. Driven	Drive Pipe	Diamin.	Depthft.
	c. Drilled	Finished	in Drift	In Rock Shal
		Gravel Pa	cked	
	d. Grout:	(KIND)	FROM (FL)	TO (Ft.)
		Cuttings		
		100 100 100 100 100 100 100 100 100 100		
		 		
		L	<u> </u>	L
2.	Distance to Ne		_	
	•			ıld
	Cess Pool		•	iron)
	Privy			
	Septic Tank		•	
	Leaching Pit_			
				es_ I No
4.	Date well comp	leted <u>8-1</u>	3-80	
5 .	Permanent Pum	p Installed? Yes	s XDate <u>9-13</u>	-80_No
				ion <u>Vell</u>
	Capacity 15	_gpm. Depth of	Setting38_	Ft.
6.	Well Top Seale	d? Yes_X_No.	Туре <u></u> Т	rtinaon
7.	Pitless Adapte	r Installed? Ye	s_X No	
				er <u>SP10</u>
		o casing? <u>bol</u>		
		d? Yes <u>Y</u>		
		pment Disinfecte		
10.				Aire
		ubmitted? Yes	No	<u> </u>
RE	MARKS:			
	OWNER T	NSTRUCTED TO	TAKE SAMPIR	
			THE PROPERTY	

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10.	Proper	ty owner <u>B. J. Stroze</u> Mi	ski	Well No)	
	Addres	813 Creve Coeur.]	<u>a Salle.</u>	<u>11 61</u>	301	
		Phil Knierim				84
		No. <u>94659</u>				
12.	Water !	from Shale	13. Cou	-		<u>la</u>
	at depi	th 45 to 50 ft.	Sec.		<u>~</u>	
14.		: Diamin.	Twp	. 33N	.	
	Length	n:ft. Slot	Rge	. <u>lr</u>	- ├─	╂═╂═┨
			Elev	/	- -	
15.	Casing	and Liner Pipe			_ لــ	
Die	m. (in.)	Eind and Weight	From (F1.)	To (FL.)	Lo	CATION IN
	5	Steel	_ o_	43	8EC	TION PLAT
Г) JE ?	sw st
		 	f1		•	
16	Si-a H	ole below casing: 5			•	
17.		level <u>23</u> ft. below casi		h is	1	A.
•••		ground level. Pumping lev				
						,
	gpm fo	r <u>4</u> bours.				
18.		r 4 bours. PORMATIONS PASSED THROUGH	3H	тнісі	CHESS.	DEPTH OF
		PORMATIONS PASSED THROUGH	ЭН		CHESS	DEPTH OF BOTTOM
To	p Soi	PORMATIONS PASSED THROUGH	CH CH		L .	1
To Cl	p Soi	PORMATIONS PASSED THROUGH	DH .	4:	L 2	43
To Cl Ro	p Soi	PORMATIONS PASSED THROUGH	.H	4	L 2 2	1 43 45
To Cl Ro	p Soi	PORMATIONS PASSED THROUGH	2H	4	L 2	43
To Cl Ro	p Soi	PORMATIONS PASSED THROUGH	ЭН	4	L 2 2	1 43 45
To Cl Ro	p Soi	PORMATIONS PASSED THROUGH	2H	4	L 2 2	1 43 45
To Cl Ro	p Soi	PORMATIONS PASSED THROUGH	2H	4	L 2 2	1 43 45
To Cl Ro	p Soi	PORMATIONS PASSED THROUGH	2H	4	L 2 2	1 43 45
To Cl Ro	p Soi	PORMATIONS PASSED THROUGH	DH DH	4	L 2 2	1 43 45
To Cl Ro	p Soi	PORMATIONS PASSED THROUGH	2H	4	L 2 2	1 43 45
To C1 Ro	p Soil	PORMATIONS PASSED THROUGH		L _k ;	L 2 2	1 43 45
To C1 Ro	p Soil	PORMATIONS PASSED THROUGH		4:	L 2 2 5	1 43 45 50
To C1 Ro	p Soil	PORMATIONS PASSED THROUGH		4:	L 2 2 5	1 43 45 50
To C1 Ro	p Soil	PORMATIONS PASSED THROUGH		4:	L 2 2 5	1 43 45 50

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Ili. Dept. of Pu : Health
Yellow Copy — Well Contractor
Blue Copy — Well Owner

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

a. Dug Bored x Hole Diam. 32 in. Depth 4 Curb material CONCret Suried Slab: Yes x No b. Driven Drive Pipe Diam in. Depth c. Drilled Finished in Drift In Rock	····
b. Driven Drive Pipe Diamin. Depth	
	•.
c. Drilled Finished in Drift In Rock_	
	••••
Tubular Gravel Packed	
d. Grout: (KIND) FROM (Fi.) TO (Fi.	,
(1111)	
2. Distance to Negrest:	
Building Ft. Seepage Tile Field Seepage Tile Field	•
Cess Pool Sewer (non Cast iron)	
Cess Pool Sewer (non Cast iron) Privy Sewer (Cast iron)	
Septic Tank Barnyard	
Leaching Pit Manure Pile	
3. Well furnishes water for human consumption? Yes X No.	
4. Date well completed	
5. Permanent Pump Installed? YesDateNo.	<u>X</u> .
ManufacturerTypeLocation	
Capacitygpm. Depth of Setting	Ft.
6. Well Top Sealed? Yes X No Type Vented C:	ap_
7. Pitless Adapter Installed? Yes X No No	/54 ovar
Monufacturer Baker Model Number 5PLT	617.5MM
How attached to casing?Clamp-on	
8. Well Disinfected? Yes X No	
9. Pump and Equipment Disinfected? YesNo	
10. Pressure Tank Sizegal. Type	
Location	
11. Water Sample Submitted? YesNoX	
DCM X DV C.	
REMARKS:	
UEWAUVO:	

GEOLOGICAL AND WATER SURVEYS WELL RECORD

			,	`	
10. Propert	y owner Jack Ato	r	Well No		
Addres	2705 St. Vinc	ent I	aSall	e	<u> </u>
Driller	Steven Sauder	Licens	e No.	92	-622
11. Permit	No. 73795	Date _	5/2/	78_	
12. Water f	No. 73795 rom vellow grave	1 13. Cou	nty <u>La</u>	<u>Sal</u>	<u>Le</u>
	h 11 to _12_ft.	Sec.	3.		
14. Screen:	Diamin.		. 33N		
Length	:ft. Slot	•	. 1E	· _	
16 (7	and Lines Dine	Elev	/. ——	· -	
	and Liner Pipe			 -	SHOW
Diam. (in.)		From (Ft.)			CATION IN TION PLAT
6	PVC	1	10	35	N, BOO'E
24	concrete	10	48	500	K ME
	ole below casing:				_
	evelft. below casi				
	round level. Pumping level	eı 17.	wnen pu	mbrud] at
	عم النف المطبورة الأسمان على المعمولات المعمولات المعمولات المعمولات المعمولات المعمولات المعمولات المعمولات				
18.	ORMATIONS PASSED THROUG	iH 	THICK	NESS	DEPTH OF BOTTOM
clay-	yellow		1:	1	11
grave	l- yellow			1	12
clay-	gray, green		1	3	25
shale	- red		1	0	35
shale	- gray, white, pow	dery	1	3	48
			_		
(CONTINUI	ON SEP.\RATE SHEET IF	NECESSARY		5/5	

White
III. wept of Public Health
Yellow Copy — Well Contractor
Blue Copy — Well Owner

FILL IN ALL PERTINENT INFORMATION ... QUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

				·	10. Prop
1.	Type of Well		~		Add
				n. Depth 32 ft.	Dril
	Curb materi	al Bu	ried Slab: Yes_	No	11. Peri
	b. Driven	Drive Pipe	Diamin	Depthft.	12. Wate
	c. Drilled X	Finished	in Drift	In Rock	ert de
	d. Grout:	Gravel Pa	cked		14. Scre
	a. Grout:	(KIND)	FROM (Ft.)	TO (F1.)	Ler
		puddled			
		clay	0	28	15. Casi
		<u>_</u>			Diem. (in
		L		L	5
2.	Distance to Ne				
	Building			eld ble	
	Cess Pool		•	iron)	<u> </u>
	Privy)	16. Size
	Septic Tank			····	17. Stati
•	Leaching Pit_			37 M	abov
J.	Well lumishes	water for human (consumption? Y	es_X_No 984	gpm
				No	18.
Э.	Menufactures	R.J. T.	Silpu I	tion in well	
	Consoity 2	Denth of	Setting 2	Ft.	<u> </u>
6	Well Top Sealer	2 gpm. Deptit of 12 Yes X No.	Type]	k-type	gra
7	Pitless Admiss	r Installed? Ye		Y 77 1/1	g_a
•		Wells			san
		casing?			sti
8.		d? Yes X			gra
		pment Disinfecte		No	
					sha
	Location				-
11.	Water Sample S	ubmitted? Yes	No		
RE	MARKS:				
					(CONTI)
					(000111

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Addres Driller 11. Permit 12. Water for at depti 14. Screen: Length:	S.Dean Albrech No. 112380//23 rom sand Formation h 18 to 32 ft.	L Licens 2 Date _ 13. Cou Sec. Twp	No1 5-16= nty LaS 33N 1E	02-120 84 alle
Diem. (in.)	Kind and Weight	From (FL.)	To (Pt.)	SHOW LOCATION IN
5	PVC	0	28	BECTION PLAT
			/	NW 1JUSO
17. Static I above g gpm for	ole below casing: 5 evel 12 ft. below casis ground level. Pumping lew 1 hours.	1 <u>29</u> ft.	when pur	mping at <u>25</u>
10.				BOTTON
brown			_	_ 1
	n clay & sand		1	3 13
	clay & sand		11	3 13 5 18
	clay			
gray sand	clay		1	5 18 1 19
gray sand	clay cy gray clay		10	5 18 1 19
gray sand stick	clay xy gray clay		10	5 18 1 19 0 29
gray sand stick	clay xy gray clay		10	5 18 1 19 0 29
gray sand stick	clay xy gray clay		10	5 18 1 19 0 29
gray sand stick	clay xy gray clay		10	5 18 1 19 0 29

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Ill, Dept. of Pub. realth
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Blue Copy — Well Owner

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well	_		
	a. Dug	Bored H	lole Diam. <u>32</u> ir	n. Depth_54_ft.
	Curb materi	alterichete F	Buried Slab: Yes_	No
			pe Diamin	
			in Drift	
	Tubulær	Gravel P	acked URS.	
	d. Grout:	(KIND)	FROM (Ft.)	TO (Ft.)
			. 0'	101
		consta		
				· · · · ·
				ļ
2.	Distance to Ne	arest: hew	constructio	24
	Building Rolls	<u>e-35</u> Ft.	Seepage Tile Fi	eld ho
	Cess Pool	ho	Sewer (non Cast	iron)
	Privy	no	Sewer (Cast iron)ha_
	Septic Tank	No_	Barnyard	ha_
	Leaching Pit_	No	Manure Pile	No
3.	Is water from th	nis well to be u	sed for human con	sumption?
	Yes /	No		-
4.	Date well comp	leted 7-	11-69	
	Permanent Pum	p Installed?	Yes	No
	Manufacturer	<u> </u>	Туре	
	Capacity	gpm. Dej	Type	ft.
6.	Well Top Segle	d? Yes_	No	
	_		YesN	
	•		No	
9.	Water Sample S	ubmitted? Ye	esN	lo
	44 5160		1 inst	•
KE	MARKS:	\wedge		. 10
		上) ha	1 inst	ell
		~ b IW		0 64
				T umps
				• • 0
IDI	DU A DES			

	GE0	LOGICAL AND WATER	SURVEYS	WELL R	ECO	RD
10.	Proper Addres	ty owne AZFREDY LUCIZE ss RI# BOX 27-	Boers 16x1	Well No	. <u>وا</u>	- 192
11. 12.	Water :	ss R/# BOX 27 - E.T. HAMPTON No. NFG00 8 from /2 5 2 2 Formation thtoft.	13. Cou	nty 32	ゔゞ	1/83 1/2e
	Screen Length	: Diamin. n:ft. Slot	Twp Rge	. <u>33 Y</u> . <u>1 E</u>		
		and Liner Pipe	, ·	, 	<u> </u>	
Dia	m. (ln.)	Concrete Cosing	From (Ft.)	J4	BEC.	SHOW CATION IN TION PLAT
	Static	ole below casing: levelft. below casi ground level. Pumping leve	ng top whic			
		rhours.				
18.	gpm fo	rhours.	эн	тніск	NESS	DEPTH OF BOTTOM
	gpm fo	rhours.	эн		NESS	
	gpm fo	rhours.	эн		NESS	DEPTH OF BOTTOM
	gpm fo	rhours.	эн		NESS	DEPTH OF BOTTOM
	gpm fo	r hours.	эн		NESS	DEPTH OF BOTTOM
	gpm fo	rhours.	эн		NESS	DEPTH OF BOTTOM
	gpm fo	rhours.	эн		NESS	DEPTH OF BOTTOM
	gpm fo	rhours.	эн		NESS	DEPTH OF BOTTOM
	gpm fo	rhours.	эн		NESS	DEPTH OF BOTTOM

Hampton DATE 8-9-69

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

IDPH 4.065 10/68

	Partial
·	
City north of Ceder Point	County La Lelle Range / E.
ectionTwp. No	33 N. Range / E.
ocation (in feet from section corner) 23	580'N. & 100'E. of J.W. come
Wner John Massiem	Authority S.G. S. & drille's record
Contractor Daniel L. Schmidt	
Date drilled 1939	Elev. above sea level top of well
Depth 83'	
_	
3'sand + gravel	Landpan; 20 blue day + stones; 15 blueday + fine day;
•	Where filed
_	re and how much
	11/2" Clayton Mark 60 gauge screen
	60 Distance to water is
feet after pumping at	
Reference point for above measurements	
Type of pump	Distance to cylinder
Length of cylinder	Length of suction pipe below cylinder
Length stroke	Speed
Hours used per day	Type of power
Rating of motor	Rating of pump in G. P. M.
Can following be measured: (1) Static	water level
(2) Pumping level	(3) Discharge
(4) Influence on other wells	
Temperature of water	Was water sample collected
•	Effect of water on meters, hot wate
coils, etc	·
•	Analysis No. 87464
	Recorder Aloffle
2807-22617 12	Date 3/6/40

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INSTRUCTIONS TO TILLERS

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

					10. Property	owner SOUTH BLU
l.	Type of Well				Address	R.R.#1 P
	a. Dug	Bored Ho	ole Dicon. <u>5</u> in	. Depth 41 ft.	Driller	S. Dean Albrec
	Curb mater	ial B	uried Slab: Yes_	No		No. 119609
	b. Driven	Drive Pip	e Diamin.	Depthft.		om sand Formation
	c. Drilled	X Finished	in Drift X	In Rock		33 to 41 ft.
	Tubular	X Gravel Pa	e Diamin. in DriftX acked		at depth	1 22 to 71 n.
	d. Grout:				14. Screen:	Digm. 4 in.
		(KIND)	PROM (Pt.)	TO · (Ft.)	Leagta:	
		puddled			16 Castan	and I to a Disc.
		clay	0	34		and Liner Pipe
		1			Diam. (in.)	Kind and Weight
2.	Distance to No	ecrest:			_5	stool
	Building	Ft.	Seepage Tile Fie	ld		
	Cess Pool		Sewer (non Cast		L	
	Privy		Sewer (Cast iron)		16. Size Ho	le below casing: 5
	Septic Tank		Barnyard		17. Static le	evel 12 It. below co
			Manure Pile			round level. Pumping l
3.	Well furnishes	water for human	consumption? Ye	s_XNo	gpm for	2 hours.
4	Date well comp	pleted <u>Aug</u>	ust 22, 198	35	-	RMATIONS PASSED THRO
5.	Permanent Pur	up Installed? Ye	s X Date	No	18.	EXECUTIONS PASSED THRO
	Manufacturer_	<u> </u>	s X Date pe <u>SUDM</u> Locat	ion <u>in well</u>	dirt	
	Capacity 40	_gpm. Depth of	Setting 40	Ft.	WII V	
6.	Well Top Seale	id? Yes <u>X</u> No	Туре	lead	<u>yellow</u> c	elay
7.			esX_ No		arev ele	·y
			Model Numb			
_			hreaded		gravel	
		ed? Yes X				
			ed? Yes_X_			
10.	Location	Sizegal.	Туре			······
11			No			
	MARKS.					
	Con	Ty#2335	58			
		•			4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -	

	Dan Christian.	ser)			
10. Proper	ty owner SOUTH BLUFT	C.C.	Well No	2871	
	$R.R{\pi}^{u}1$ Per			-	
	S. Dean Albrecht No. 119609				م
II. Permit	No. 117007	Date	augus	11.13,19 0	2
IA. WULGI	from sand	13. Cour	28.5 E		
at dept	th 33 to 41 ft.	Sec.	3311		
14. Screen Lenath	: Digm. 4 in.		1E	1411	
		Elev.			
15. Casing	and Liner Pipe		L		
Diam. (in.)	Kind and Weight	From (FL)	Fo (Ft.)	MOW OCATION IN	
5	stool		34 56	SE NU	
		<u> </u>	Co	mences	
	·	! I	CA	resaleon!	
18.	ORMATIONS PASSED THROUGH	SH .	THICKNESS	DEPTH OF	
dirt			4	4	
	clay		8	12	•
	av		11	33	
ravel			8	4.1	
,					
				123	3450
			Į.	1 /01.16	0/
				1 65 N. 1°	1. 31 T
				R. C.	100 M
				Service of the servic	(3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
					100 mg
(CONTINU	E ON SEPARATE SHEET IF	NECESSARY)		The state of the s	Second
(CONTINU	E ON SEPARATE SHEET IF	NECESSARY)	9/5	(8 C 25 10 10 10 10 10 10 10 10 10 10 10 10 10	િટ્રેલ હોયો જે

GEOLOGICAL AND WATER SURVEYS WELL RECORD

INSTRUCTY TO DRILLERS

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FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Curb materia b. Driven c. Drilled	. Drive Pip Finished	uried Slab: Yes_ e Diamin	. Depth <u>30</u> ft. Noft. Depthft. In Rock
	u. Gloui.	(KIND)	FROM (Ft.)	TO (Fi.)
2	Distance to No.			
Z.	Distance to New Building No.		Common Tile Fi	old NONIE
	Cess Pool			iron)
	Privy		•)
	Leaching Pit		Manure Pile	
3	Well furnishes	vater for human	consumption? Y	es 🔬 No
4.	Date well comp	leted 8-	2-82	
5.	Permanent Pum	p Installed? Ye	s Date	NoX
	Manufacturer	Ту	peLoca	tion
				Ft.
6.	Well Top Sealed	i? YesNo	Туре	
7.	Pitless Adapter	Installed? Y	es No	
	Manufacturer	BAKKR	Model Numl	er BRRSSY
	How attached to	casing?	INT + BASKE	
8.	Well Disinfecte	d? Yes	No	
			ed? Yes	
	Location			
	Water Sample Si MARKS:	ubmitted? Yes	No	<u></u>

GEOLOGICAL AND WATER SURVEYS WELL RECORD

INDRY DAVA

	ty owner AMIAY 1007	<i>v</i>	. Men ud	·	
Addres	SE RR. PERU				
Drille	BOBLINT SCHERE	Licens	se No. 🗷	72-	0342
11. Permit	No. 1011201				
12. Water :	from GRAVAL.	13. Cou	nty <u> </u>	<u> 2 S//</u>	44.1E
	th <u>20 to 2/ft</u> .	Sec	29.	3, <u> </u>	
	: Diamin.		33/Y		╂═╂═╉═┪
	h:ft. Slot	•	. <u> E</u>	- 6	
Dengu		_	•	1	<u> </u>
15 Carina	g and Liner Pipe	Elev	7	. [:
	<u> </u>	···			SHOW
Diam. (in.)	Kind and Weight	From (Ft.)	To (F1.)	LU	CATION IN
24	Control	10	30		TION PLAT
				50	SWNE
		· · · · · · · · · · · · · · · · · · ·			
			L	J	
16. Size H	ole below casing:	in.		,	•
	levelft. below casi				
	ground level. Pumping leve	ol ft.	when pu	mping	at
gpm to	r hours.				
18.	FORMATIONS PASSED THROUG	Н	Тијс	N E SS	DEPTH OF BOTTOM
10.	YALLEYV CHAY			CHESS	DEPTH OF BOTTOM
10.	YKLLOYY CHAY				
10.	YKLLUXY CLAY BUVE CLAY				15
10.	YKLLOYY CLAY BUNK CLAY CRAVEL				15 10 21
10.	YKLLUXY CLAY BUVE CLAY				15
10.	YKLLOYY CLAY BUNK CLAY CRAVEL				15 10 21
10.	YKLLOYY CLAY BUNK CLAY CRAVEL				15 10 21
10.	YKLLOYY CLAY BUNK CLAY CRAVEL				15 10 21
10.	YKLLOYY CLAY BUNK CLAY CRAVEL				15 10 21
10.	YKLLOYY CLAY BUNK CLAY CRAVEL				15 10 21
10.	YKLLOYY CLAY BUNK CLAY CRAVEL				15 10 21
10.	YKLLOYY CLAY BUNK CLAY CRAVEL				15 10 21
	YKILLYV CIAY BUVE CIAY CRAVEL SHALE				15 10 21
	YKLLOYY CLAY BUNK CLAY CRAVEL				15 10 21
	YKILLYV CIAY BUVE CIAY CRAVEL SHALE	NECESSARY		5- 5- 1	15 70 21 30
	YKILLYV CIAY BUVE CIAY CRAVEL SHALE	NECESSARY		5- 5- 1	15 70 21 30

White L —
III. C — of Public Health
Yellow Lupy — Well Contractor
Blue Ccpy — Well Owner

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DE-PARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

. Type of Wei		Hole Diam	_in. Depthft.
			esNo
b. Driven	Drive	Pipe Diam.	in. Depthft.
c. Drilled	X Finish	ed in Drift X	In Rock
Tubular	X Gravel	Packed	
d. Grout:			
	(KIND)	FROM (Ft.)	TO (Ft.)
	Puddled	clay 0	50
Distance to			
			Field
-		-	ast iron)
Privy		Sewer (Cast i	iron)
•	it		
	m this well to be		consumption?
Yes X	No		
. Date well c	ompleted <u>Apr1</u>	1 6, 1972	
. Permanent	Pump Installed?	YesX	No
			ubmersible
Capacity_	hp gpm. D	epth of setting_	42 <u>f</u> t.
• •	aled? Yes	•	
			_ No
	cted? Yes		•
. Water Samp	le Submitted?	Yes	_ No_X
Marks:			
		•	
		1	
		•	

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10, Proper	ly owner Marquette	Cement (Well No	. 12	09
	s Dglesby Ill.				
	S. Dean Albrech				
	No. NF 13926				1972_
12. Water i	rom Kravel	13. Cou	uthraran	TTE	
at dept	th 34 to 55 ft.		31.7	<i>t</i> ,	
	: Diam. 4 in.	Twp	33N	. [
Length	:: <u>4</u> ft. Slot <u>15</u>	Rge	E	- -	 - - -
		Elev	<i>r</i>	- 1	
15. Casing	and Liner Pipe				1
Diem. (in.)	Kind and Weight	From (Ft.)	To (Ft.)	Lo	SHOW CATION IN
6	steel pipe	0	50		TION PLAT
				120	5 45
				νωμ	c NE S
IS Size H	ole below casing: 6	in.		J	•
	level <u>13</u> ft. below casi	_	·h i=	11	60
	ground level. Pumping lev				at 25
	25_ hours.				,
18.	ORMATIONS PASSED THROUGH	ЭН	THICK	NESS	DEPTH OF BOTTOM
F111 m:	lx			10	10
Gray c	lay			24	34
gravel				21	55
	•				
					
		· · · · · · · · · · · · · · · · · · ·	 		
		· ·	+	-	
	············				
CONTINU	E ON SEPARATE SHEET IF	NECESSARY)		-

SIGNED S. D. saw (PObrecht DATE AUgust

IDPH 4.065

16

White Co-III. Do. Public Health Yellow Copy -- to: If Contractor Blue Copy -- Wels Owner

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GEOLOGICAL AND WATER SURVEYS WELL RECORD

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

WELL CONSTRUCTION REPORT	9. 10. Property owner <u>James Giardano</u> Well No. <u>1</u>	<u>950</u>
1. Type of Well a. Dug Bored Hole Diam. 5 in. Depth 664 ft Curb material Buried Slab: Yes No b. Driven Drive Pipe Diamin. Depthft. c. DrilledX Finished in DriftX In Rock Tubular Gravel Packed d. Grout: (XIND) FROM (FL.) TO (FL.) puddled	Address Peru Illinois t. Driller S.D. Albrecht License No. 10 11. Permit No. 62983 Date 12. Water from gravel 13. County LaSa	2-120 110
clay 0 62	Then (to) Find and Walch! Soon (St.) To (St.)	SHOW OCATION IN
2. Distance to Nearest: Building Ft. Seepage Tile Field Cess Pool Sewer (non Cast iron) Privy Sewer (Cast iron) Septic Tank Barnyard Leaching Pit Manure Pile	16. Size Hole below casing: 5 in. 17. Static level 42 ft. below casing top which is above ground level. Pumping level 63 ft. when pumpi	
3. Well furnishes water for human consumption? Yes_X_No 4. Date well completedAugust_4, 1977		
ManufacturerTypeLocation		DEPTH OF BOTTOM
	(CONTINUE ON SEPARATE SHEET IF NECESSARY)	10 1977

IDPH 4.065 1/74 - KNB-1

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well			
				. Depth_80_ft.
		al Bu		
		Drive Pipe		
		x Finished		In Rock
		Gravel Pa	cked	
	d. Grout:	(KIND)	FROM (Ft.)	TO (Ft.)
		p-gravel	0	72
		I DESIXE		
		L		
2.	Distance to Ne			
	Building			1d
	Cess Pool		•	iron)
	Privy		•	·
	Septic Tank			
	Leaching Pit_			
				s_X_No
		leted <u>Ma</u>		
5.				-82 No
		oulds Ty		
6	Well Tax Seels	To Arak Marian	Setting	Eapped Ft.
		r Installed? Ye		
••	Manufacturer	Williams	Model Numb	
	How attached t	o casina?	bolted	er
8.	Well Disinfecte	d? Yes x	No	
9.	Pump and Equi	pment Disinfecte	d? Yes X	No
10.	Pressure Tank	Size 80 gal.	Type Well-	t-trol
	LocationP	lt.	- 77	
11.	Water Sample S	ubmitted? Yes	No	
RE	MARKS:			

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Wall No

10 Property owner Harry Pappas

to.		ty owner		, well 110	• ————
		RFD 1 Lynnwood Su			
	Driller	Mendota Will & Pum	Licens	e No. 🔟	02-84
11.	Permit	No. 103396	Date _	<u>5-10-8</u>	2
12.	Water i	rom Sand Gravel	13. Cou	ntyI	A Salle
	at dans	th _66_ to _80_ft.	Sec	34.5	f T
14	Screen	: Dicon4in.		. 33N	
• ••		: 8 ft. Slot 12	Rae	. <u>1</u> R	┊┠╼╂╼╂╼╂╍┨
			-	'	┊┠╼╂╼╂╼╂╼┨
15.	Casing	and Liner Pipe			
	m. (in.)	<u> </u>	From (F1.)	To (Ft.)	SHOW
	5	# 200 PVC	0	72	LOCATION IN SECTION PLAT
-		# 200 PVC		-72	NESENW
-	 				
		ole below casing: 44	L		1
•	above	levelft. below casi ground level. Pumping leverhours.			
18.	7	ORMATIONS PASSED THROUG	H	THICK	NESS DEPTH OF BOTTOM
To	Soil	•	**		3
<u>C14</u>	Ly			62	65
Sai	nd Gra	vel		15	80
			·· ·		
		•			i i
_				- 	
(Q	UNITHO	e on separate sheet if	NECESSARY		.
			1	17	
SIGI	NED \mathcal{L}	wed F. Toll	ef the	TE NO	v. 19, '82
			/ //		
_		•	-		\sim

Ib ... 1 4.065 1/74 - KNB-1 (50571-12) jM Sota-6-74)

White Croy III. Dout blic Health
Yellow Copy - well Contractor
Blue Copy - Well Owner

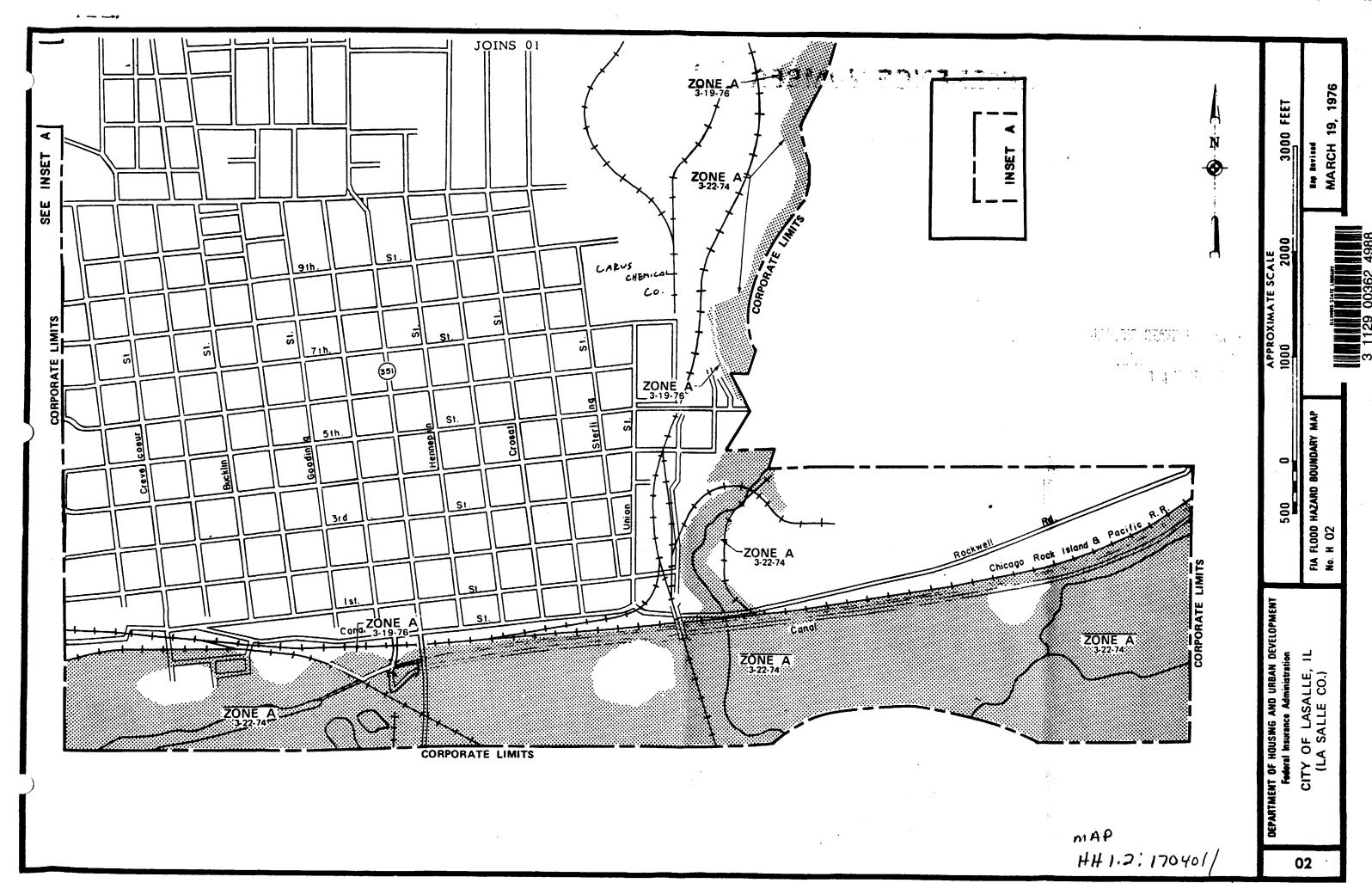
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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	b. Driven c. Drilled X	rl Bu Drive Pipe	ried Slab: Yes_ Diamin. n DriftX	Depth 55 ft. No ft. In Rock
	a. Grout:	(KIND)	FROM (F1.)	TO (Ft.)
		_puddled		
		clay	0	41
2.	Distance to Nea	rest:		
	Building		Seepage Tile Fie	old
	Cess Pool			iron)
	Privy			
	Septic Tank		Barnyard	
	Leaching Pit_	I		
3.	Well furnishes v	vater for human o	consumption? Ye	s_X_No
4.	Date well compl	leted Decemb	er 12, 197	7
5.	Permanent Pump	p Installed? Ye:	<u> X_Date</u>	No
	Manufacturer_G	ouldsTyr	e hp. Local	ion in well
				Ft.
				Lead
7.	Pitloss Adapter	Installed? Ye	s_X No	
				er
_	How attached to	casing?	amp on	
		d? Yes <u>v</u>		
		ment Disinfecte		
10.	Location	Sizegal.	Туре	
		ubmitted? Yes	No	XX

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Proper	ty owner Dale Sell		. Well No	2006		
10. Property owner Dale Sell Well No. 2006 Address LaSalle, Illinois						
Driller	S.D. Albrecht	Licens	e No	102-120		
11. Permit	No. 70249	Date _				
12. Water i	from sand & gravel	13. Cou	nty <u>LA:</u>	SALLE		
at dept	th 30 to 48 ft.	Sec	34	3 x		
14. Screen	: Diam. 4 in.		33N			
Length	n: <u>4</u> ft. Slot <u>15</u>		iE			
15. Casing	and Liner Pipe	Eie	/,			
Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)	SHOW LOCATION IN		
				SECTION PLAT		
5	steel pipe	0	μ ₁	SE m m.		
	ground level. Pumping lev	el ft.	when nu	major of 10		
gpm fo	r 🗦 hours.					
		.,	тніск			
	r hours. FORMATIONS PASSED THROUGH	.,		NESS DEPTH OF BOTTOM		
18. P	r hours. FORMATIONS PASSED THROUGH	.,	тніск 2(NESS DEPTH OF BOTTOM		
brown	r _ hours. PORMATIONS PASSED THROUGH	GR	Тніск 2(NESS DEPTH OF BOTTOM		
brown light gray y	r _ hours. CORMATIONS PASSED THROUGH Clay brown clay	GR	Тніск 2(NESS DEPTH OF BOTTOM 20 26 4 30		
brown light gray y brown	r hours. FORMATIONS PASSED THROUGH Clay brown clay cllow & black cl	GR	20 6	NESS DEPTH OF BOTTOM 20 26 4 30 3 48		
brown light gray y brown gray b	r _ hours. FORMATIONS PASSED THROUGH Clay brown clay cellow & black cl sand & gravel	ау	20 6	NESS DEPTH OF BOTTOM 20 26 4 30 3 48		
brown light gray y brown gray b gray c	r hours. CORMATIONS PASSED THROUGH Clay brown clay cellow & black cl sand & gravel rown sand	ау	20 6 18	DEPTH OF BOTTOM 20 26 4 30 3 48 2 50		
brown light gray y brown gray b gray c	r hours. CORMATIONS PASSED THROUGH Clay brown clay cellow & black cl sand & gravel rown sand lay	ау	20 6 18	DEPTH OF BOTTOM 20 26 4 30 3 48 2 50 51		
brown light gray y brown gray b gray c granit clay	r _ hours. FORMATIONS PASSED THROUGH Clay brown clay cellow & black cl sand & gravel rown sand lay e	ау	20 6 18	NESS DEPTH OF BOTTOM 20 26 4 30 3 48 2 50 51 2 53		
brown light gray y brown gray b gray c granit clay	r hours. FORMATIONS PASSED THROUGH Clay brown clay cellow & black cl sand & gravel rown sand lay cellow separate sheet if	ау	20 6 18	NESS DEPTH OF BOTTOM 20 26 4 30 3 48 2 50 51 2 53		
brown light gray y brown gray b gray c granit clay	r _ hours. FORMATIONS PASSED THROUGH Clay brown clay cellow & black cl sand & gravel rown sand lay e	ay Necessary	20 6 1 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	NESS DEPTH OF BOTTOM 20 26 4 30 3 48 2 50 51 2 53		



INSTRUCTIONS TO DE ERS

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1. Type of Well

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

	a. Dug	Bored Ho	le Diamin	. Depthft.
	Curb mater	ial Bu	ried Slab: Yes_	No
	b. Driven	Drive Pipe	e Diamin.	Depthft.
	c. Drilled	X Finished	in Drift X	In Rock
	Tubular	Gravel Pa	cked <u>yes</u> .	
	d. Grout:	(KIND)	FROM (F1.)	TO (Ft.)
		pea gravel	61	
				72
		cuttings	0	61
2.	Distance to No	earest:		
	Building		Seepage Tile Fie	ld
	Cess Pool		• •	iron)
	Privy		•	
	Privy Septic Tank	200	•	
	Leaching Pit		•	
3.	Well furnishes	water for human o	consumption? Ye	s X No
4.	Date well com	pleted Octob	er 24, 1984	
5.	Permanent Pur	mp Installed? Yes	x DateOct.	25,198%
	Manufacturer Re	ed Jacket Tyr	e Sub Locat	ion Well
	Capacity_10	_gpm. Depth of	Setting 6	5Ft.
6.	Well Top Seale	ed? Yes <u>X</u> No.	Typecaj	pped
7 .	Pitless Adapte	er Installed? Ye	s_X No	
	Manufacturer_	Williams to cosing? Bo	Model Numb	er B 50 ACV
	How attached	to casing? Bo	lted	· · · · · · · · · · · · · · · · · · ·
		ed? Yes <u>XX</u>		
9.	Pump and Equ	ipment Disinfecte	d? Yes <u>X</u>	No
10.	Pressure Tank	Sizegal.	Type owner	rs
		<u>basement</u>		
1.	Water Sample S	Submitted? Yes,	No	<u> </u>
RE	MARKS:			

GEOLOGICAL AND WATER SURVEYS WELL RECORD

			WELL DE	מטטי 🔑
_	ROBERT MOSS			
10. Proper	ty owner <u>Robert Hosb</u>	ach	. Well No	·
Addres	R.F.D., Oglesby,	Illinois	61348	
Drille	David F. Tolley	Licena	e Nol02-0	02953
11. Permit	No. <u>115266</u>	Date _	October 1	1, 1984
12. Water	from sand & gravel	13. Cou	nty <u>Ia Sa</u>	lle
at den	th <u>64</u> to <u>71</u> ft.	Sec.	35.86	
14. Screen	: Diam5_in.		33N_	
Length	: 4 ft. Slot 10		. TE	╼╂╼╂╼╂╼
•		-	<i>.</i>	
	and Liner Pipe		·	
Diem. (in.)	Kind and Weight	From (Ft.)	To (Ft.)	MOW LOCATION IN
1 5	SDR 21 PVC	0		ECTION PLAT
			^	IN SW SW
	·	-		•
		<u> </u>		
16. Size n	ole below casing: 5 level 20 ft. below cas	IN. 	-k :-	7 4
17. Static	ground level. Pumping le	ing top wind	:n 13	10"
	ground level. Fumping level $1 - \frac{1}{2}$ hours.	A&1 I('	waen bamb	ing at
gpin to	i nours.			
18.	ORMATIONS PASSED THROU	GH	THICKNE	DEPTH OF BOTTOM
top so				POLION
	11		2	
clav	011		62	2
clay			62	2 64
	oil and gravel			2
sand a		· · · · · · · · · · · · · · · · · · ·	62	2 64
sand a	und gravel		62	2 64 71
sand a	und gravel		62	2 64 71
sand a	und gravel		62	2 64 71
sand a	und gravel		62	2 64 71
sand a	und gravel		62	2 64 71
sand a	und gravel		62	2 64 71
sand a	und gravel		62	2 64 71

SIGNE DATE Oct. 29, 1984

White Ccoy —
III. DayL of Public Health
Yellow Ccpy — Well Contractor
Blue Copy — Well Owner

1. Type of Well

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

a. Dug___. Bored___. Hole Diam. 5 in. Depth 382 at.

				No
	b. Driven	Drive Pipe	e Diamin.	Depthft.
	c. Drilled X	Finished i	in Drift X	In Rock
	Tubular	Gravel Pa	cked	
	d. Grout:	(KIND)	FROM (Ft.)	TO (Ft.)
		ouddled		
	P		0	35
	ŀ	'v clay	<u></u>	
	L		L	<u> </u>
2.	Distance to Nea	rest:		
	Building	Ft.	Seepage Tile Fie	eld
	Cess Pool		Sewer (non Cast	iron)
	Privy		Sewer (Cast iron)	
	Septic Tank		Barnyard	
_	Leaching Pit		Manure Pile	
3.				esX_No
4.	Date well comple			
5.	Permanent Pump	Installed? Yes	S_X Date	No
	Manufacturer Re	d backe yy	be Taga Focal	ion Well
6	Well Top Sealed	gpm. Depunor	Setting	7Ft,
	Pitless Adapter			
••	Manufacturer			
	How attached to			
8.	Well Disinfected	? Yes X	_ No	
9.	Pump and Equip	ment Disinfecte	d? Yes X	No
	Pressure Tank S			
	Location	-		
11.	Water Sample Sui	omitted? Yes	NoX	
RE	MARKS: sand	1		25 ½
	red cla	y 3½		29
	gravel	.y)2 1½		30½
	_			
	gray cl			35½
	gravel	3		38 ½
11	DPH 4.065			\sim

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Prop	erty owner <u>Pat Malone</u>	9	Well No		
Addi	LaSalle, Illino S. Dean Albrech	ois			
Drill	er S. Dean Albrech	it Licens	se No.	L02-	120
11. Pern	it No 48977	Date _	June	25.	1976
12. Wate	from gravel	13. Cou	ntyI	<u>aSa</u>	lle
es 14	-vr 3 Kgr v	Sec.	6.16		K
14. Scree	in: Digm. 5 in.	Twn	. 33N		- - -
Lend	th: 32 ft. Slot 4	Rae	<u> 1E</u>		
•			/		
15. Casi	ng and Liner Pipe				
Diam. (in.	Kind and Weight	From (Ft.)	To (Ft.)	LOC	SHOW ATION IN
5	steel pipe	0	35	BECT	ION PLAT
				NE	NE N
16 Size	Hole below casing: 5	in .			
17. Stati	: level8 ft. below casin	 na top whic	h is	1 1 5	ft
	ground level. Pumping leve				
	or2 hours.		•	•	
18.	FORMATIONS PASSED THROUGH	н	THICK	NE35	DEPTH OF BOTTOM
top	soil		5		5
<u>=</u>	ow gravel		1		6
	low clay		3		9
	low gravel		1		10
gray			3 1		13 1
grav	;T		13		15
gray	clay		1		16
<u>redi</u>	sh clay	·	7	l	23
gray	clay		2		25

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED SULLING (A) Line AT DATE A DIG- 116

Wi. Jopy —
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1 Type of Well

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

••	a. Dug	Bored Ho	le Diam. <u>5</u> in	. Depth <u>159</u> ft.
	Curb materi	al Bu	ried Slab: Yes_	No
				Depthft.
				In Rock X
		Gravel Pa	cked	
	d. Grout:	(KIND)	FROM (Ft.)	TO (Ft.)
		Puddled		
		Clay	0	68
		, , , , , , , , , , , , , , , , , , ,		
		L	L	
2.	Distance to Ne	crest:		
	Building			eld
	Cess Pool			iron)
	Privy			
	Septic Tank			
	Leaching Pit _			
3.	Well furnishes	water for human	consumption? You	8_X_No
				1983
5.				No_X
		Ту		
_				Ft.
				
7.		r Installed? Ye		
				er
_	How attached to	o casing?		
		d? Yes X		**
		pment Disinfecte		
	Location			
11.	Water Sample S	ubmitted? Yes	No	
RE	MARKS:			

GEOLOGICAL AND WATER SURVEYS WELL RECORD

			Cemeta	7			
10.	Propert	y owner FOREST LAWN	CEMETA	RMEII No	ئـــ ،	648N	
•	Addres	LaSalle, IL	, <u> </u>				
	Driller	S. Dean Albrec	ht Licens	e No	10	12 - 12	20
11.	Permit	No106063	Date 🗓	anuar	<u>y_2(</u>	1,198	13
12.	Water !	from rock	13. Cou	ntyLi	aSa.	Lle_	
		h_1200159_ft.	Sec.	12.3	b	I	П
14.		: Diamin.	Twp	. <u>33N</u>			П
	Length	:ft.	Rge	. <u>1E</u>	. -	++-	Н
			Elev	/,	. -	 ,	\vdash
15.	Casing	and Liner Pipe			ᆫ		لسا
Die	m. (is.)	Kind and Weight	From (Ft.)	To (Ft.)	LO	MOT CATION	134
	5	Steel	0	68		TION P	LAT
Г							
厂							
16	Siza H	ole below casing: 5	in (<	emelary	')		
17.	Static	level 60 ft. below casi	ing top which		11	†	_ ft.
•••	above	ground level. Pumping lev	el ft.	when pu	mpine	at 2	5
	gpm fo	r hours.		-	•		
18.	ī	ORMATIONS PASSED THROUGH	GH	ТНІСК	HESS	DEPTH	Q.
_	lay			1		1	
	ands	tone St. Pete		11		12	
	tan 1	imestone		43		55	
	ray	limestone		65		120	
_£	ray	limestone w/crac	ks	40		160	
			- <u>-</u>				
4-0-4	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	E ON SEPARATE SHEET IF	NECESSA DA				

SIGNED S. Dean albert DATE 2/23/83

W __copy -III. Dept. of Public Health Yellow Copy.— Well Contractor Blue Copy — Well Owner

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

c. Drilled Tubular	. Drive Pipe X . Finished i Gravel Page	n Drift	In Rock
d. Grout:	(KIND)	FROM (FL)	TO (Ft.)
	Clay	0	88
Distance to !	Necrest:	· · · · · · · · · · · · · · · · · · ·	
			eld
		•	iron)
)
•			
Leaching Pit	·	Manure Pile	v
Well furnishe	s water for human	consumption? Y	es A No
Date well co	mpleted <u>May</u>	- 2 /	
Permanent P	ump Installed? Yes Red Jacketry	Date	No
Manufacturer	neu Jacke cTyp	e Sumb Loca	tion III WETT
Capacity /_ /2	pgpm. Depth of	Setting	Ft.
Well Top Sea	led? Yes No	Туре	V
Pittess Adap	ter installed? I e	8 No	
now attached	to casing? ted? Yes_X	N -	
			3.1
•	uipment Disinfecte		
Location	nk Sizegal.		
W-4 C1-	Submitted? Yes	A7	

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10.	Property owner LaSalle Di			
	Address P.O. BOx 465	LaSalle	<u> </u>	· · · · · · · · · · · · · · · · · · ·
	Driller S. Dean Albred	cht License	. No	102-120
11.	Permit No93984	Date	<u>May</u>	21,1980
12.	Water fromLimestone	13. Coun	- 1	л
	at depth 10 to 150 ft.	Sec.	12.	الله المسالة
14.	Screen: Diamin.	Twp.	33N	 - - - -
• • •	Length:ft. Slot	Rge.	1E	
		Elev		
15.	Casing and Liner Pipe		•	
Die	am. (in.) Kind and Weight	From (Ft.)		MOW LOCATION IN
Г	5 Steel	0	88	SECTION PLAT
				NENE SE
				•
16.	Size Hole below casing: 5	in.	(comm	ercial operation)
	Static level 50 ft. below cas		h is	1. ft.
	above ground level. Pumping lev			
	gpm for _1 hours.		•	
18.	FORMATIONS PASSED THROU	GH	THICK	NESS DEPTH OF BOTTOM
18.	Top Soil	СН	THICK	DEPTH OF BOTTOM
18.	Top Soil	GН		
18.	Top Soil		5	5 10
18.	Top Soil		5	5
18.	Top Soil		5	5 10
18.	Top Soil		5	5 10
18.	Top Soil		5	5 10
18.	Top Soil		5	5 10
18.	Top Soil		5	5 10
18.	Top Soil		5	5 10
18.	Top Soil		5	5 10
18.	Top Soil		5	5 10
	Top Soil	of Shale	5 5 140	5 10
	Top Soil Clay Limestone w/streaks	of Shale	5 5 140	5 10 150

Milto Copy — III. Dopt of Public Health Yellow Copy — Well Contractor Blue Copy — Walt Owner

INSTRUCTIONS TO LERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.				. .
	a. Dug	Bored_1. I	iole Diam. 24 ir	n. Depth <u>I</u> ft.
			Buried Slab: Yes_	
			ipe Diamin	
	c. Drilled	Finishe	d in Drift	In Rock
	Tubular	Gravel F	Packed	
	d. Grout:			,
		(KIND)	PROM (P1.)	TO (Ft.)
2	Distance to Ne			
2.	Building		Carrage Tile Ti	90
	Cess Pool			eld
	Privy			iron))
	Septic Tank	84		<i>/</i>
	Leaching Pit_		Manure Pile	
3.			n consumption? Y	
			· 84	
5.	Permonent Pun	nn Installed? Y	'es Date <u>// -//</u>	1-86 No
	Manufacturer	TRIT T	ype SVA Loca	tion WAW
	Copacity 16	gom. Depth o	of Setting	Ft.
6.			loТуре	
7.	Pitless Adapte	r Installed?	Yes / No_	
			Model Numb	
	How attached t	o casing?/	WE VGBSKIT	
8.	Well Disinfecto	rd? Yes 1	No	
9.	Pump and Equi	pment Disinfec	ted? Yes 1	No
10.			l. Type _Cittill	1K1111
	Location		·	
11.	Water Sample S	ubmitted? Ye	s No	
RE	MARKS:		County # 2.	2295
			Juny 11 d.	2212

GEOLOGICAL AND WATER SURVEYS WELL RECORD

	ty owner <u>STRIVLEY MRE</u>					
Addres	s ROOT PULASE	1 Phis				
Driller	RUBERT SCHER	Licens	e No. 🗷	92-	13425	
11. Permit	No. 1220 from 6 RAVA to Formation	Date _	16:30.5	3	C C CO 111 7	0.100
	Formation	13. Cou	nty			a Kalki,
		Sec.				
		Twp				
Lengta	1:ft. Slot	_	· !			
15. Casing	and Liner Pipe					
Diem. (in.)	Kind and Weight	From (Ft.)	To (Ft.)	LO	CATION IN	
24	Concret	10	3/	SEC	TION PLAT	
					-	
16. Size H	ole below casing:	in.		-		
17. Static	levelft. below cas	ing top whic	:h is/		f1.	
above (ground level. Pumping lev	rel ft.	when pu	mpin	g at	
gpm for	r hours.					
18.	ORMATIONS PASSED THROU	GН	THICK	NE03	DAPTH OF DOTTON	
	TOP SOLV					
	YKHLOW CLAY	/		4_	15	
	CRAVEL		ن	<u></u>	20	
	SHALE			11	3/	
	11111-12		- 			
	· · · · · · · · · · · · · · · · · · ·				ļ	
			Ī			
	· · · · · · · · · · · · · · · · · · ·					
					 	
					<u></u>	
(CONTINU	e on separate sheet if	NECESSARY)			
	<i></i>					

REFERENCE NUMBER 42

Site Representative Interview

A site representative interview was held on May 22, 1991 between Robert Casper of the IEPA and Ronald W. Swietek and Horst R. Adolf of Carus Chemical Co. During the interview and later facility tour the site representatives gave background information of the sites' history and operations as well as answering any questions asked of them. Some of that information has been used in this report.

REFERENCE NUMBER 27



LINCOLN TOWER PLAZA • 524 SOUTH SECOND STREET • SPRINGFIELD 62701-1787
CHICAGO OFFICE • ROOM 4-300 • 100 WEST RANDOLPH 60601

BRENT MANNING, DIRECTOR

June 12, 1991

Mr. Robert Casper LPC/RPMS IL EPA P.O. Box 19276 Springfield, IL 62794-9276

Re: ILD #005 477 666
Carus Chemical Co.
LaSalle Co.

Dear Mr. Casper:

In reference to your May 28, 1991 letter concerning the above noted CERCLIS Site in LaSAlle County the Department has determined there are no sensitive areas (form attached) within the 1 mile radius of the site.

Relative to the water path shown on the attached map the DuPue Lake Conservation Area is located at the lower end in Sections 1 and 2.

The Department cannot speak for the USFWS relative to federally endangered species although the Natural Heritage Database contains both federal and state-listed species known to occur in Illinois.

Thank you for the opportunity to comment.

Sincerely,

Richard W. Lutz, Supervisor Impact Analysis Section Division of Planning

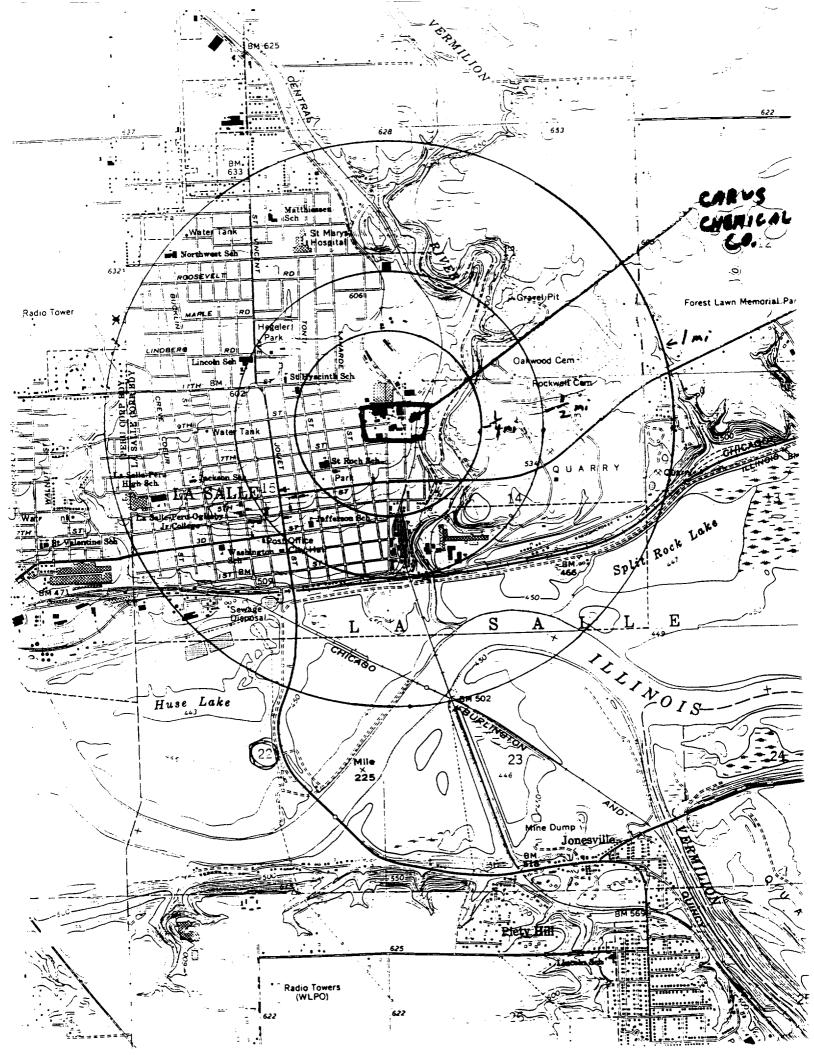
RWL:ts

RECEIVE

JUN 1 4 1991

IEPA/DLPC

Att: site and water path maps sensitive areas form





DEFINITION OF CONSERVATION IDENTIFICATION OF ENVIRONMENTAL SENSITIVE AREAS

1LD# 005 477 666 --- = NIA(NOVE IN AVA)

TARGET DISTANCE CATEGORIES

	SENSITIVE ENVIRONMENTS	On-site	O-1/4 mile	1/4-1/2 mile	stream milage
1.	Critical habitat for Federally designated or proposed endangered or threatened species	-			
11.	Habitat known to be used by Federally designated or proposed endangered or threatened species				
111.	State wildlife refuge	_			
īV.	Spawning areas critical for the maintenance of fish/ shellfish species within a river system			_	_
V.	Terrestrial areas utilized by large or dense aggregations of verbebrate animals for breeding	_		-	
VI.	Habitat known to be used by State designated or threatened species				_
vп.	Habitat known to be used by a species under review as to its Federal endangered or threatened status		~	-	
VIII.	State lands designated for wildlife or game management	e	-	-	Defluctate Cons. Arox
IX.	State designated natural area		•		
X.	Particular areas, relatively small in size, important to the maintenance of unique biotic communities		-		

If any of the sensitive areas identified above exist within the designated target distance limits, please produce an asterisk (*) in the appropriate column.

)



REFERENCE NUMBER



1500 EIGHTH STREET • LA SALLE, ILLINOIS 61301, U.S.A.

Tel. (815) 223-1500 • Cable Code: CARCHEMCO

Telex 404452 CARUSCORP LASAL

5 April 1984

RECEIVED
Field Operations Capitlan

APR 11 1984

Environmental Protection Agency State of Illinois

Illinois EPA 4302 North Main Street Rockford, IL 61103 Attn: Mr. Jack Adams

Dear Jack:

This letter is to confirm our telephone conversation of 3 April 1984 concerning the discharge of mother liquor containing potassium permanganate into our south lagoon with subsequent discharge of 5 to 10 lbs of manganese to the Little Vermilion River.

The events leading to the discharge of mother liquor to our south lagoon were as follows:

- 1. Based on our sewer monitoring station one of our pump packings failed at 8:30 AM on 1 April 1984 allowing the discharge of permanganate mother liquor into the hot well tank of our crystallizer cooling water system. Under normal condition the sewer monitor would activate the telephone system and upon answering the telephone inform the supervisor that there is an abnormal condition at the inflow to the south lagoon. For some reason this automatic transfer system did not function and no one was aware of the problem.
- 2. At 1:45 PM one of our employees who was driving on Rt. 6 informed us that there was a discharge of potassium permanganate from the south lagoon overflow into the Little Vermilion River. The supervisor on duty immediately checked the plant operation and detected the failure of the pump packing gland. The discharge stream was immediately changed to the plant mother liquor system.
- 3. The south lagoon was inspected at 2:00 PM by the supervisor and myself and a sample of the effluent was taken for analysis. Based on the color of the sample it was decided to stop plant operation, stop the addition of the cooling water stream to the south lagoon, and to plug up the outflow from the south lagoon to the Little Vermilion River.
- 4. The south lagoon overflow and emergency overflow pipe were plugged with blankets and the inflow into the Little Vermilion River was specific completely by 3:15 PM.

 REGION 1 D.W.P.C.

APR 9 1984

CARUS CHEMICAL COMPANY, INC.

Illinois EPA Page 2 5 April 1984

> 5. The Laboratory Supervisor arrived at the plant around 2:30 PM and determined that the sewer monitoring system indicated the input of mother liquor into the south lagoon properly, but the telephone alarm system failed to activate the telephone.

The Service Engineer for the telephone system was contacted and arrived at the plant at 4:00 PM. His analysis was that one of the drive belts for the tape drive unit was broken and therefore did not activate the telephone. The tape drive unit was replaced.

- 6. The south lagoon outflow was analysed and the result was 14 ppm Mn. The outflow from the south lagoon was 750 GPM before the outflow was stopped which calculated to a maximum Mn input of 5.25 lbs per hour. Report from one other employee who was driving over Rt. 6 around 1:30 PM indicated that the outflow at this time was colorless. It was therefore assumed that the discharge of Mn at a concentration of less than 14 ppm started shortly after 1:30 PM and continued until 3:15 PM. Based on this the maximum time period was 1-3/4 hours. This calculates to a maximum input of 9.2 lbs of Mn. The actual input is less since the concentration was lower at the beginning of the discharge.
- Starting at 4:30 PM small amounts of sodium bisulfite were spread over the contaminated water from a rubber raft to reduce the potassium permangate to MnO_2 . This was stopped at 6:00 PM.
- 8. On 2 April 1984 at 8:00 AM small amounts of manganese sulfate were spread over the lagoon surface from a rubber raft and later from a boat with a motor to provide mixing. The addition was kept at a very small amount to prevent overtreatment. The treatment was continued until 3:30 PM at which time the color of the treated water was a very slight pink, indicating less than 1 ppm Mn. The overflow pipe was opened up and discharge to the Little Vermilion River resumed at 5:30 PM. The Mn content was .89 ppm at 7:00 PM on 2 April and .75 ppm at 7:00 AM on 3 April. Plant operation was resumed at 8:00 PM on 2 April 1984.

RECEIVED REGION 1 D.W.P.C.

9 198.1 APR

CARUS CHEMICAL COMPANY, INC.

Illinois EPA Page 3 5 April 1984

Corrective Actions:

- 1. A pumping system has been installed to pump a continuous stream of water from the crystallizer hot well tank to a visible discharge point near an operator station. This allows close observation by the process operators and a change of color can be detected early.
- 2. The telephone alarm system will be inspected and tested on a weekly basis.
- 3. A red revolving light and an audible alarm will be installed at the sewer monitoring station. The alarm system will be activated the same time the telephone system is activated. The red light will come on immediately and the audible alarm will be placed in operation 20 minutes later. This provides protection if for some reason the telephone system would not operate properly.

The action which was taken has been in correspondence with our BMP. Please contact me if you should have any other questions.

Sincerely,

Walter A. Moshage Manufacturing Director

WAM/mb

RECEIVED REGION 1 D.W.P.C.

APR 9 1984

ENVIRORMENTAL PROTECTION TO THE STATE OF HELYON

REFERENCE NUMBER %

CITY OF LASALLE

GENERAL WASTEWATER DISCHARGE PERMIT APPLICATION

Who should submit this Permit Application?

All Industrial Users, regardless of the amount discharged, who discharge or propose to discharge to the City of LaSalle Wastewater Treatment Plant. "Industrial User" is defined by City ordinance to mean a source of Indirect Discharge; that is, the introduction of pollutants into the City treatment works from any non-domestic source regulated under Section 307(b), (c) or (d) of the Clean Water Act.

In general, Industrial Users include any non-domestic User which discharges toxic pollutants (as defined Pursuant to Section 307 of the Act) or conventional pollutants in such amounts or concentrations as to Interfere with or Pass Through the City treatment works. Users in doubt as to whether they must apply for a General Wastewater Discharge Permit should contact the Superintendent of the Wastewater Treatment Plant for a determination.

When is this Application Due:

Existing Industrial Users (those connected to or discharging to the City treatment works must submit this Application by
______.)

New Industrial Users must submit this Application at least 90 days prior to discharging to the City treatment works.

This Application should be submitted along with a General Permit fee of \$500.00 to:

Superintendent of Wastewater Treatment Plant City of LaSalle 400 River Street LaSalle, IL 61301

Make checks payable to "City of LaSalle Sewerage Fund"

Industrial Users subject to National Categorical Pretreatment Standards promulgated by USEPA pursuant to 40 CFR Part 403 must also apply for a Supplemental Wastewater Discharge Permit.

SECTION 1

٦.	Can	party Name CARUS CHEMICAL COMPANY, SPECIAL PRODUCTS DIVISION SIC Code No. 2819
3.	Org	anization of Business (sole proprietorship, partnership or corporation)
	1.	If sole proprietorship, give name of owner and assumed name, if different from answer to 1 A above.
	2.	If partnership, give names of general partners and assumed name, if different than answer to 1 A above.
	3.	If corporation, give state in which incorporated and the name and address of registered agent.
		State of Delaware C. T. Corporation Trust
		1209 Orange Street Wilmington, DE 19801
_	_	
c.	Bus Str	reet1500 Eighth Street
	Cit	y LaSalle Zip Code 61301
D.		eation of premise discharging wastewater:
		zy LaSalle Zip Code 61301
E.	Per	son completing this application (Authorized Representative of User):
	Nan	e Jack L. Kessler
	Tit	ele Plant Engineer Phone 223-1500
F.	Num	ber of employees:
		Number of employees: Total of 29 employed
G.	Var	riation of operation:
	Ave	erage annual days per week of plant operation Seven (7)
н.	Tin	me and duration of discharge to the sanitary sewer:
	Dis	scharge occurs from 8:00 A.M. to 8:00 A.M.
	Cir	cle the days of the week that discharge occurs: (S) (M) (T) (W) (TH) (F) (S)

SECTION III

RAW MATERIALS AND CHEMICALS

A. Give technical and common names of raw materials and chemicals that are used in the manufacturing or other processes which may be discharged to the sanitary sewer. In the case of proprietary compounds, provide manufacturer's name.

TECHNICAL NAME	COMMON NAME	MANUFACTURER'S NAME
Copper Sulfate	Copper sulfate	Copper sulfate Pentahydrate
Hydrochloric acid	Mariatic acid	Hydrochloric acid 20° Baume
Copper sulfate pentahydrat	e Copper sulfate	Copper sulfate pentahydrate
Cerium Nitrate solution	Cerium nitrate solution	Cerium nitrate solution
Sulfuric acid	Sulfuric acid	Sulfuric acid
Sodium carbonate	Soda ash	Sodium carbonate
Sodium bicarbonate	Sodium bicarbonate	Sodium bicarbonate
Sodium hydroxide	Sodium hydroxide	Sodium hydroxide
Potassium permanganate	Potassium permanganate	Potassium Permanganate
Ethylene glycol	Ethylene glycol	Ethylene glycol

(cont.)

NATURE AND CONCENTRATION OF POLILITANTS IN WASTEWATER DISCHARGE

- B. Indicate which of the following pollutants are or may be present in the wastewaters discharged to the City treatment works by entering the appropriate code on the line provided:
 - (1) present or expected to be present in discahrge during normal operations;
 - (2) present or expected to be present in discharge on occasion due to batch or intermittent operations;
 - (3) pollutant used, stored or produced on premises but not present or expected to be present in discharge.

Bromodichloromethane Bromoform Bromomethane Carbon Tetrachloride Chloroethane 2 Chloroethylvinyl ether Chloroform Chloromethane Dibromomethane Dichlorodifluoromethane 1,1 Dichloroethane 1,2 Dichloroethylene 1,2 Dichloroethylene	1,3 Dichloro-l-propylene, cis 1,3 Dichloro-l-propylene, trans Methylene Chloride 1,1,2,2 Tetrachloroethane Tetrachloroethylene 1,1,1 Trichloroethane 1,1,2 Trichloroethane Trichloroethylene Vinyl Chloride Benzene Chlorobenzene Ethylbenzene Toluene 1,2 Dichlorobenzene
1,2 Dichloroethylene, trans	1,2 Dichlorobenzene
1,2 Dichloropropane	1,3 Dichlorobenzene

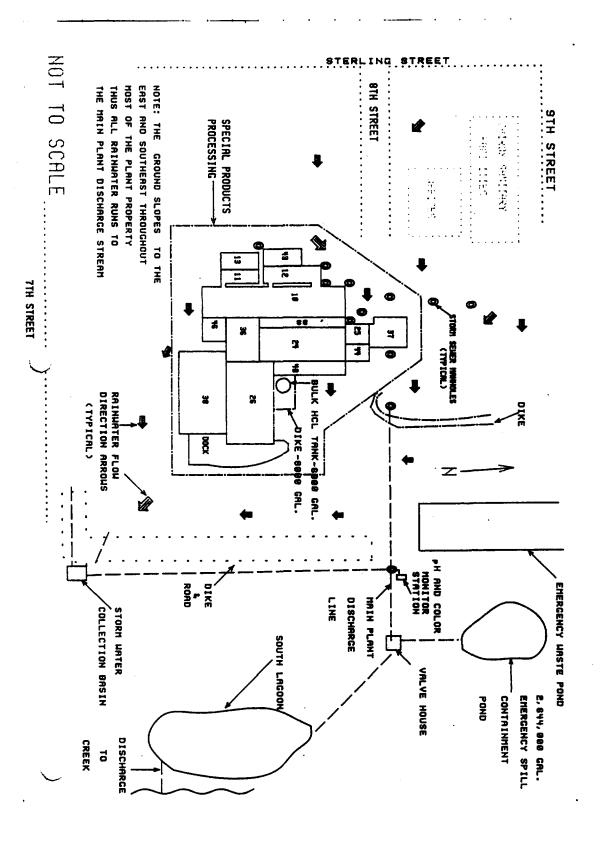
SECTION III

Raw Materials and Chemicals

Tech. Name	Common Name	Mfg. Name
Clarifloc A-210	Flocculation polymer	Clarifloc A-210
Active alumina	Aluminum oxide	Catapal B
Nitric acid	Nitric acid	Nitric acid
Manganese dioxide	Manganese dioxide	Manganese dioxide
Pollucite ore	Cesium bearing ore	Pollucite ore

ACCIDENTAL SPILL CONTAINMENT DIAGRAM

Draw a line diagram showing facilities to provide for accidental spill containment. Give descriptions and locations of physical barriers (e.g. trenches, curbing, etc.), monitoring devices (e.g. pH meters, conductivity meters, etc.), capacity of spill containment and attach a brief description of operating procedures in case of a spill. If current spill containment drawings have been submitted to and accepted by the City, it is not necessary to provide this drawing.



RAW DATA WORKSHEET FOR STATE LAGOON REPORTS	
24 HR COMPOSITES, 001 DISCHARGE	METHOD# ANALYZED DATE STORRET# BY ANALYZED *
·	
	150.1-00403
	160.2-00530
DISCHARGE TOTAL MANGANESE ===================================	243.1-01056
DISCHARGE NH3-N ====================================	
DISCHARGE OIL-FATS-GREASE===================================	
CITY WATER DATA===================================	150.1-00403
pHTEMPERATURE OF pH MEASUREMENTTEMPERATURE OF SAMPLE OC	160.2-00530
CITY WATER SUSPENDED SOLIDS====================================	: 243.1-01056
CITY WATER TOTAL MANGANESE===================================	
CITY WATER NH3-N===================================	
COMMENTS:	
*:EPA-600/4-79-020, "METHODS FOR CHEMICAL ANALYS	
Y: F7, S, RETURN TO STORE CALCULATED DATA IN	REPORT FILE

KEY: F7, \, P, RETURN TO PRINT AND STORE INTERIM RESULTS

KEY: F7, \, F, RETURN WHEN ALL THE DAILY RESULTS ARE ON THE SHEET

Hazard Ranking System

Preliminary Score

Projected Score

CONFIDENTIAL



PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 HRS DOCUMENTATION RECORD Carus Chemical Company - 06/29/92

1. Site Name: Carus Chemical Company (as entered in CERCLIS)

2. Site CERCLIS Number: ILD# 005477666

3. Site Reviewer: Robert L. Casper

4. Date: 5/07/92

5. Site Location: LaSalle/LaSalle, Illinois (City/County, State)

6. Congressional District: 14

7. Site Coordinates: Single

Latitude: 41°20'05.0" Longitude: 089°05'00.0"

	Score
Ground Water Migration Pathway Score (Sgw)	100.00
Surface Water Migration Pathway Score (Ssw)	100.00
Soil Exposure Pathway Score (Ss)	100.00
Air Migration Pathway Score (Sa)	14.20

Site Score		86.89
1]

NOTE

EPA uses the terms "facility," "site," and "release" interchangeably. The term "facility" is broadly defined in CERCLA to include any area where hazardous substances have "come to be located" (CERCLA Section 109(9)), and the listing process is not intended to define or reflect boundaries of such facilities or releases. Site names, and references to specific parcels or properties, are provided for general identification purposes only. Knowledge regarding the extent of sites will be refined as more information is developed during the RI/FS and even during implementation of the remedy.

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 2 WASTE QUANTITY

Carus Chemical Company - 06/29/92

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: Soil

a.	Wastestream ID	Soil
b.	Hazardous Constituent Quantity (C) (lbs.)	0.00
c.	Data Complete?	NO
d.	Hazardous Wastestream Quantity (W) (lbs.)	0.00
e.	Data Complete?	NO
f.	Wastestream Quantity Value (W/5,000)	0.00E+00

Wastestream	Constituent
Hazardous Su	ubstances

Hazardous Substances	Concent.	Units Liquid		Qualifier	
Arsenic	2.4E+02	ppm	NO		
Barium	8.2E+02	ppm	NO		
Cadmium	7.1E+01	ppm	NO		
Copper	4.1E+02	ppm	NO		
Lead	3.9E+04	ppm	NO		
Manganese	1.2E+04	ppm	NO		
Mercury	1.3E+00	ppm	NO		
PCBs	0.0E+00	ppb	NO		
Zinc	4.4E+04	ppm	NO		

a.	Wastestream ID	
b.	Hazardous Constituent Quantity (C) (lbs.)	0.00
c.	Data Complete?	NO
d.	Hazardous Wastestream Quantity (W) (lbs.)	0.00
e.	Data Complete?	NO
f.	Wastestream Quantity Value (W/5,000)	0.00E+00

PREscore 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 3 WASTE QUANTITY

Carus Chemical Company - 06/29/92

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a.	Source ID	Soil	
b.	Source Type	Contaminated S	oil
c.	Secondary Source Type	N.A.	
d.	Source Volume (yd3) Source Area (ft2)	0.00	200000.00
e.	Source Volume/Area Value	5.88E+00	
f.	Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00	
g.	Data Complete?	NO	
h.	Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	0.00E+00	
i.	Data Complete?	NO	
k.	Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	5.88E+00	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Arsenic	< 2	NO	2.4E+02	ppm
Barium	< 2	NO	8.2E+02	ppm
Cadmium	< 2	NO	7.1E+01	ppm
Copper	< 2	NO	4.1E+02	ppm
Lead	< 2	NO	3.9E+04	ppm
Manganese	< 2	NO	1.2E+05	ppm
Mercury	< 2	NO	1.3E+00	ppm
PCBs	< 2	NO	3.9E+03	ppm
Pyrene	< 2	NO	1.2E+03	ppm
Zinc	< 2	NO	4.4E+04	ppm

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 4 WASTE QUANTITY

Carus Chemical Company - 06/29/92

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: Sediment

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 5

WASTE QUANTITY

Carus Chemical Company - 06/29/92

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a.	Source ID		Sediment	
b.	Source Type		Surface Impour	ndment
c.	Secondary Source Type	•	N.A.	
d.	Source Volume (yd3)	Source Area (ft2)	0.00	200000.00
e.	Source Volume/Area Va	ılue	1.54E+04	
f.	Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)		0.00E+00	
g.	Data Complete?		NO	
h.	Source Hazardous Wast (WSQ) Value (sum of 1	-	0.00E+00	
i.	Data Complete?		NO	
k.	Source Hazardous Wast Value (2e, 2f, or 2h)	- • •	1.54E+04	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Arsenic	< 2	NO	3.8E+01	ppm
Barium	< 2	NO	8.7E+02	ppm
Benzo(j,k)fluorene	< 2	NO	2.3E+00	ppm
Benzofluoranthene, 3,4-	< 2	NO	1.6E+00	ppm
Beryllium	< 2	NO	2.3E+00	ppm
Cadmium	< 2	NO	1.0E+01	ppm
Chromium	< 2	NO	5.7E+01	ppm
Cobalt	< 2	NO	1.8E+01	ppm
Copper	< 2	NO	3.8E+02	ppm
Iron	< 2	NO	4.6E+04	ppm
Lead	< 2	NO	3.6E+02	ppm
Manganese	< 2	NO	2.9E+04	ppm
Mercury	< 2	NO	2.9E-01	ppm
Nickel	< 2	NO	9.1E+01	ppm
Phenanthrene	< 2	NO	1.4E+00	ppm
Pyrene	< 2	МО	2.3E+00	ppm
Zinc	< 2	NO	2.8E+03	ppm

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: 6

WASTE QUANTITY

Carus Chemical Company - 06/29/92

3. SITE HAZARDOUS WASTE QUANTITY SUMMARY

No. Source ID	Migration Pathways	Vol. or Area Value (2e)	Constituent or Wastestream Value (2f,2h)	Hazardous Waste Qty. Value (2k)
1 Soil	GW-SW-SE-A	5.88E+00	0.00E+00	5.88E+00
2 Sediment	GW-SW-SE	1.54E+04	0.00E+00	1.54E+04

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 WASTE QUANTITY

Carus Chemical Company - 06/29/92

4. PATHWAY HAZARDOUS WASTE QUANTITY AND WASTE CHARACTERISTICS SUMMARY TABLE

Migration Pathway	Contaminant Value	es	HWQVs*	WCVs**
Ground Water	Toxicity/Mobility	1.00E+04	10000	100
SW: Overland Flow, DW	Tox./Persistence	1.00E+04	10000	100
SW: Overland Flow, HFC	Tox./Persis./Bioacc.	5.00E+08	10000	1000
SW: Overland Flow, Env	Etox./Persis./Bioacc.	5.00E+08	10000	1000
SW: GW to SW, DW	Tox./Persistence	1.00E+04	10000	100
SW: GW to SW, HFC	Tox./Persis./Bioacc.	5.00E+08	10000	1000
SW: GW to SW, Env	Etox./Persis./Bioacc.	5.00E+08	10000	1000
Soil Exposure:Resident	Toxicity	1.00E+04	10	18
Soil Exposure: Nearby	Toxicity	1.00E+04	10	18
Air	Toxicity/Mobility	2.00E+02	100	10

- * Hazardous Waste Quantity Factor Values
- ** Waste Characteristics Factor Category Values

Note: SW = Surface Water

GW = Ground Water

DW = Drinking Water Threat

HFC = Human Food Chain Threat
Env = Environmental Threat

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PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 GROUND WATER MIGRATION PATHWAY SCORESHEET Carus Chemical Company - 06/29/92

GROUND WATER MIGRATION PATHWAY Factor Categories & Factors	Maximum	Value
	Value	Assigned
Likelihood of Release to an Aquifer Aquifer: St. Peter		
1. Observed Release	550	0
2. Potential to Release		
2a. Containment	10	10
2b. Net Precipitation	10	3
2c. Depth to Aquifer	5	5
2d. Travel Time	35	35
2e. Potential to Release		
[lines 2a(2b+2c+2d)]	500	430
3. Likelihood of Release	550	550
Waste Characteristics		
4. Toxicity/Mobility	*	1.00E+04
5. Hazardous Waste Quantity	*	10000
6. Waste Characteristics	100	100
Targets		
7. Nearest Well	50	3.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	2.54E+02
8d. Population (lines 8a+8b+8c)	**	2.54E+02
9. Resources	5	0.00E+00
10. Wellhead Protection Area	20	0.00E+00
11. Targets (lines 7+8d+9+10)	**	2.57E+02
12. Targets (including overlaying aquifers)	**	4.38E+02
13. Aquifer Score	100	100.00
GROUND WATER MIGRATION PATHWAY SCORE (Sgw)	100	100.00

^{*} Maximum value applies to waste characteristics category.

^{**} Maximum value not applicable.

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET Carus Chemical Company - 06/29/92

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	550
2. Potential to Release by Overland Flow		
2a. Containment	10	10
2b. Runoff	25	1
2c. Distance to Surface Water	25	25
2d. Potential to Release by Overland	500	260
<pre>Flow [lines 2a(2b+2c)]</pre>		
3. Potential to Release by Flood		
3a. Containment (Flood)	10	0
3b. Flood Frequency	50	0
3c. Potential to Release by Flood	500	0
(lines 3a x 3b)		
4. Potential to Release (lines 2d+3c)	500	260
5. Likelihood of Release	550	550
Waste Characteristics		
6. Toxicity/Persistence	*	1.00E+04
7. Hazardous Waste Quantity	*	10000
8. Waste Characteristics	100	100
Targets		
9. Nearest Intake	50	0.00E+00
10. Population		
10a. Level I Concentrations	**	0.00E+00
10b. Level II Concentrations	**	0.00E+00
10c. Potential Contamination	**	0.00E+00
10d. Population (lines 10a+10b+10c)	**	0.00E+00
11. Resources	5	5.00E+00
12. Targets (lines 9+10d+11)	**	5.00E+00
13. DRINKING WATER THREAT SCORE	100	3.33

^{*} Maximum value applies to waste characteristics category.

^{**} Maximum value not applicable.

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET Carus Chemical Company - 06/29/92

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned	
Likelihood of Release			
14. Likelihood of Release (same as line 5)	550	550	
Waste Characteristics			
15. Toxicity/Persistence/Bioaccumulation	*	5.00E+08	
16. Hazardous Waste Quantity	*	10000	
17. Waste Characteristics	1000	1000	
Targets		-	
18. Food Chain Individual	50	4.50E+01	
19. Population			
19a. Level I Concentrations	**	0.00E+00	
19b. Level II Concentrations	**	3.00E-02	
19c. Pot. Human Food Chain Contamination	**	3.00E-06	
19d. Population (lines 19a+19b+19c)	**	3.00E-02	
20. Targets (lines 18+19d)	**	4.50E+01	
21. HUMAN FOOD CHAIN THREAT SCORE	100	100.00	

^{*} Maximum value applies to waste characteristics category.

^{**} Maximum value not applicable.

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET Carus Chemical Company - 06/29/92

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
22. Likelihood of Release (same as line 5)	550	550
Waste Characteristics		
23. Ecosystem Toxicity/Persistence/Bioacc. 24. Hazardous Waste Quantity 25. Waste Characteristics	* * 1000	5.00E+08 10000 1000
Targets		
26. Sensitive Environments 26a. Level I Concentrations 26b. Level II Concentrations 26c. Potential Contamination 26d. Sensitive Environments (lines 26a+26b+26c) 27. Targets (line 26d)	** ** ** **	0.00E+00 3.50E+02 2.50E-04 3.50E+02
28. ENVIRONMENTAL THREAT SCORE	60	60.00
29. WATERSHED SCORE	100	100.00
30. SW: OVERLAND/FLOOD COMPONENT SCORE (Sof)	100	100.00

^{*} Maximum value applies to waste characteristics category.

^{**} Maximum value not applicable.

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET Carus Chemical Company - 06/29/92

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release to Aquifer Aquifer: Sand and gravel		
1. Observed Release	550	550
2. Potential to Release		
2a. Containment	10	10
2b. Net Precipitation	10	3
2c. Depth to Aquifer	5	5
2d. Travel Time	35	35
2e. Potential to Release		
[lines 2a(2b+2c+2d)]	500	430
3. Likelihood of Release	550	. 550
Waste Characteristics		
4. Toxicity/Mobility/Persistence	*	1.00E+04
5. Hazardous Waste Quantity	*	10000
6. Waste Characteristics	100	100
Targets		
7. Nearest Intake	50	0.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	0.00E+00
8d. Population (lines 8a+8b+8c)	**	0.00E+00
9. Resources	5	5.00E+00
10. Targets (lines 7+8d+9)	**	5.00E+00
11. DRINKING WATER THREAT SCORE	100	3.33

^{*} Maximum value applies to waste characteristics category.

^{**} Maximum value not applicable.

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET Carus Chemical Company - 06/29/92

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
12. Likelihood of Release (same as line 3)	550	550
Waste Characteristics		
13. Toxicity/Mobility/Persistence/Bioacc. 14. Hazardous Waste Quantity 15. Waste Characteristics	* * 1000	5.00E+08 10000 1000
Targets		
16. Food Chain Individual 17. Population	50	4.50E+01
17a. Level I Concentrations 17b. Level II Concentrations 17c. Pot. Human Food Chain Contamination 17d. Population (lines 17a+17b+17c)	** ** ** **	0.00E+00 3.00E-02 0.00E+00 3.00E-02 4.50E+01
18. Targets (lines 16+17d) 19. HUMAN FOOD CHAIN THREAT SCORE	100	100.00

^{*} Maximum value applies to waste characteristics category.

^{**} Maximum value not applicable.

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET Carus Chemical Company - 06/29/92

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
20. Likelihood of Release (same as line 3)	550	550
Waste Characteristics		
21. Ecosystem Tox./Mobility/Persist./Bioacc. 22. Hazardous Waste Quantity 23. Waste Characteristics	* * 1000	5.00E+08 10000 1000
Targets		
24. Sensitive Environments 24a. Level I Concentrations 24b. Level II Concentrations 24c. Potential Contamination 24d. Sensitive Environments (lines 24a+24b+24c) 25. Targets (line 24d)	** ** ** **	0.00E+00 3.50E+02 0.00E+00 3.50E+02
26. ENVIRONMENTAL THREAT SCORE	60	60.00
27. WATERSHED SCORE	100	100.00
28. SW: GW to SW COMPONENT SCORE (Sgs)	100	100.00

^{*} Maximum value applies to waste characteristics category.

^{**} Maximum value not applicable.

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 SOIL EXPOSURE PATHWAY SCORESHEET Carus Chemical Company - 06/29/92

SOIL EXPOSURE PATHWAY Factor Categories & Factors RESIDENT POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
1. Likelihood of Exposure	550	550
Waste Characteristics		
2. Toxicity	*	1.00E+04
3. Hazardous Waste Quantity	*	10
4. Waste Characteristics	100	18
Targets		
5. Resident Individual	50	5.00E+01
6. Resident Population		
6a. Level I Concentrations	**	7.80E+02
6b. Level II Concentrations	**	0.00E+00
6c. Resident Population (lines 6a+6b)	**	7.80E+02
7. Workers	15	1.00E+01
8. Resources	5	0.00E+00
9. Terrestrial Sensitive Environments	***	0.00E+00
10. Targets (lines 5+6c+7+8+9)	**	8.40E+02
11. RESIDENT POPULATION THREAT SCORE	**	8.32E+06

^{*} Maximum value applies to waste characteristics category.

^{**} Maximum value not applicable.

^{***} No specific maximum value applies, see HRS for details.

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 SOIL EXPOSURE PATHWAY SCORESHEET Carus Chemical Company - 06/29/92

SOIL EXPOSURE PATHWAY Factor Categories & Factors NEARBY POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		· · · · · · · · · · · · · · · · · · ·
12. Attractiveness/Accessibility	100	2.50E+01
13. Area of Contamination	100	4.00E+01
14. Likelihood of Exposure	500	2.50E+01
Waste Characteristics		
15. Toxicity	*	1.00E+04
16. Hazardous Waste Quantity	*	10
17. Waste Characteristics	100	18
Targets		
18. Nearby Individual	1	0.00E+00
19. Population Within 1 Mile	**	9.00E+00
20. Targets (lines 18+19)	**	9.00E+00
21. NEARBY POPULATION THREAT SCORE	**	4.05E+03
SOIL EXPOSURE PATHWAY SCORE (Ss)	100	100.00

^{*} Maximum value applies to waste characteristics category.

^{**} Maximum value not applicable.

PRESCORE 1.0 - PRESCORE.TCL File 12/23/91 PAGE: AIR PATHWAY SCORESHEET

Carus Chemical Company - 06/29/92

AIR MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release 2. Potential to Release	550	550
2a. Gas Potential to Release	500	O
2b. Particulate Potential to Release	500	280
2c. Potential to Release	500	280
3. Likelihood of Release	550	550
Waste Characteristics		
4. Toxicity/Mobility	*	2.00E+02
5. Hazardous Waste Quantity	*	100
6. Waste Characteristics	100	10
Targets		
7. Nearest Individual	50	4.50E+01
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	1.05E+02
8c. Potential Contamination	**	6.30E+01
8d. Population (lines 8a+8b+8c)	**	1.68E+02
9. Resources	5	0.00E+00
10. Sensitive Environments		
10a. Actual Contamination	***	0.00E+00
10b. Potential Contamination	***	0.00E+00
10c. Sens. Environments(lines 10a+10b)	***	0.00E+00
11. Targets (lines 7+8d+9+10c)	**	2.13E+02
AIR MIGRATION PATHWAY SCORE (Sa)	100	1.42E+01

^{*} Maximum value applies to waste characteristics category.

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^{**} Maximum value not applicable.

^{***} No specific maximum value applies, see HRS for details.